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(54) Title: PROTEIN CRYSTAL

(57) Abstract: The present invention is in the fields of biotechnology, protein purification and crystallization, x-ray diffraction analysis, three-dimensional computer molecular modelling and rational drug design. The invention is directed to the Liver X receptor and ligands for this receptor, and in particular to crystalline Liver X receptor beta (LXR\$) and to methods of identifying ligands utilizing LXRB, as well as to compounds, compositions and methods for selecting, making, and using therapeutic or diagnostic agents having LXRB modulating or binding activity.



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Protein Crystal

Protein Crystal

FIELD OF THE INVENTION

The present invention is in the fields of biotechnology, protein purification and crystallization, x-ray diffraction analysis, three-dimensional computer molecular modelling and rational drug design. The invention is directed to the liver X receptor b (LXRB, NR1H2) and ligands for this receptor, and in particular to crystalline LXRβ and to methods of identifying ligands utilizing LXRβ, as well as to compounds, compositions and methods for selecting, making, and using therapeutic or diagnostic agents having LXRβ modulating or binding activity.

BACKGROUND OF THE INVENTION

Liver X receptors are members of the superfamily of nuclear receptors. These transcription factors regulate target genes through a complex series of interactions with specific DNA response elements as well as transcriptional coregulators. The binding of ligand has profound effects on these interactions and has the potential to trigger both gene activation and, in some cases, gene silencing. There are about 50 sequence-related nuclear receptors in humans and the family comprises receptors that recognize hormones, both steroidal and non-steroidal, but also receptors responding to metabolic intermediates and to xenobiotics. There are also a number of so-called orphan receptors where the natural ligand is unknown. Some of the receptors show a very specific and high affinity ligand binding, like the thyroid hormone receptors, while others have a substantially lower affinity for their ligands and are also highly promiscuous in terms of ligand selectivity. Like many of the other non-steroid hormone receptors, LXR functions as a heterodimer with the 9-cis-retinoic acid receptor (RXR) to regulate gene expression. Together with PPARs and FXR LXRs represent a subclass of so called permissive RXR heterodimers. In this subclass, the RXR heterodimers can be activated independently by either the RXR ligand, the partner's ligand or synergistically by both.

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LXRs consist of two closely related receptor isoforms encoded by separate genes – LXR α (NR1H3) and LXR β (NR1H2). As expected, the largest sequence differences are located in the N-terminal domain and in the so-called hinge region connecting the DBD and the LBD. LXR α shows tissue restricted expression with the highest mRNA levels detected in the liver and to a lesser extent in the kidney, small intestine, spleen and adrenal gland . In contrast, LXR β is ubiquitously expressed Both LXR isoforms have been shown to be activated by specific oxysterols that can be formed *in vivo* . Recently potent, non-steroidal synthetic ligands have been described. T0901317 , GW3965 and F3MethylAA all have binding IC50s around 10 nM.

Important insight into LXR biology has been obtained through the study of LXR deficient mice. Both LXRα and LXRβ knockout mice have been described. The LXRα null strain exhibits a striking inability to metabolize and excrete excess cholesterol when challenged with a high-cholesterol diet. The explanation appears to be an inability to up-regulate the rate-limiting enzyme in cholesterol conversion to bile acid, CYP7A, in response to the excess cholesterol. As a consequence, the conversion of cholesterol to bile-acid that would normally occur is blunted and cholesteryl esters deposit in the liver ultimately resulting in liver-failure. In contrast, the LXRB knockout strain maintains its natural resistance to a high cholesterol diet. These important findings not only prove an important function of LXRα in rodent cholesterol metabolism, but also suggest that the LXR dependent regulation of CYP7A is LXR-subtype selective. The CYP7A LXR response element is not well conserved between rodents and man. LXRs are therefore not expected to be main regulators of cholesterol conversion to bile-acids in humans. This notion is supported by results from in vitro assays using cultured human cells. However, more recently, LXRs have been shown to regulate also several other genes involved in cholesterol and lipid homeostasis. Prominent examples are the phospholipid/ cholesteryl ester transporter ABCA1, ABCG1 and the SREBP1c gene that, in turn, induces fatty acid synthesizing enzymes. Increasing insight into the involvement of LXRs in cholesterol and fatty acid homeostasis has led to considerable interest in LXRs as targets for drug development. As an example, one hallmark of atherosclerosis is the build-up of cholesteryl esters in macrophages of the arterial wall, transforming the cells into so-called foam cells that, in turn are constituents of the atherosclerotic plaque. The potential to increase cholesterol

efflux from macrophages/foam cells by inducing genes such as ABCA1 and /or G1 thereby preventing or even reversing the atherosclerotic process make LXRs highly interesting drug targets.

The inventor's understanding of how nuclear receptor ligands exert their effects has been dramatically enhanced by the elucidation of the crystal structures of the apo or liganded LBDs of several nuclear receptors. These structures have revealed a common, mainly a helical, fold unique for LBDs of nuclear receptors. It comprises a core layer of three helices (H5/6, H9 and H10) sandwiched between two additional layers of helices (H1-4 and H7, H8, H11 respectively). This arrangement creates a wedge shaped molecular scaffold that contains a wider upper part, which shows the highest degree of sequence conservation a between the LBDs. The narrower lower part is folded to form a hydrophobic cavity into which the ligand can bind. The remaining secondary elements, an antiparallel b-sheet comprising 2-4 strands and H12 (sometimes also referred to as the AF-2 domain) sits on each side of the ligand-binding cavity. The structures have revealed that ligands can affect the position of H12 so that an agonist puts H12 in a position allowing coactivator binding and preventing corepressor binding, while in an unliganded or antagonist bound receptor the coactivator binding site is blocked. Alternatively, the unliganded or antagonist bound receptor recruits corepressors. The binding modes of several of these coregulators have also recently been depicted in detail.

The present inventors have been able to produce LXR β crystals and to determine from that the three dimensional structure of the LXR β ligand binding domain (LBD).

SUMMARY OF THE INVENTION

The present invention refers to the crystallization of LXRβ and determination of its crystallographic co-ordinates. Therefore, in a first aspect the present invention provides a LXRβ ligand binding domain crystal.

In another aspect of the invention, methods for designing ligands which will bind to LXR β are provided. Such methods use three-dimensional models based on the crystals of the

LXRb ligand-binding domain. Generally, such methods comprise, determining compounds which are likely to bind to the receptor based on their three dimensional shape in particular the ligand binding domain of the LXRb. Preferably, such compounds have a structure that is complementary to the ligand-binding cavity of the LXRb. Such methods comprise the steps of determining which amino acid or amino acids of the ligand-binding domain of the LXR β interacts with the binding ligand, and selecting compounds or modifying existing compounds, to improve the interaction. Preferably, improvements in the interaction are manifested as increases in the binding affinity but may also include increases in receptor selectivity and/or modulation of efficacy.

Preferably, the ligands bind to the internal LXRβ binding cavity with a high binding affinity, for example within the range of 0.01–1000 nM.

The ligands may bind tightly to the LXR β yet not up-regulate gene expression thereby inhibiting the action of endogenous LXR β activators. Thus, the invention also provides a method of inhibiting the activity of endogenous LXR β activators by providing ligands that bind to LXR β with a high affinity, blocking the activity of the endogenous ligands. Alternatively, binding of the ligand to the LXR β may cause conformational changes to the LXR β inhibiting further binding thereto. The invention further provides a method of inhibiting the activity of endogenous LXR β ligands in an animal, the method comprising administering to the animal a ligand which binds to at least the LBD, of the LXR β with high affinity and blocks binding of further ligands to at least the LBD of the LXR β . Such ligands are potentially useful in, for example, the treatment of LXR β mediated diseases in humans. Preferably the ligands are identified by the method of designing ligands according to the invention.

DETAILED DESCRIPTION OF THE INVENTION

One aspect of the invention provides a crystal comprising at least 150 amino acid residues of the LXR β ligand-binding domain. Preferably, the said crystal comprises at least 200 amino acid residues of LXR β . More preferably, said crystal contains at least 250 amino

acid residues of LXR β . Most preferably, the said crystal comprises the entire LXR β amino acid sequence.

Preferably the crystal comprises the amino acid sequence shown as Leu-220 to Asp-458 most preferably Leu-220 to Glu-461 of a LXRβ ligand binding domain as shown in Figure 5 or an amino acid sequence having at least 95%, especially above 97, 98 or 99% identity to the sequence. This numbering is based on the full sequence of human LXRβ. Preferably, the crystal comprises the entire amino acid sequence shown in Figure 5.

Isolated protein consisting of the amino acid sequence listed for the crystals are also provided by the invention. The isolated protein may be used to produce the crystals.

The proposed structural identity (based on analogy to the estrogen receptor and thyroid hormone receptor) of parts of the LXR β ligand-binding domain is shown below, based on the amino acid numbering of the full LXR β .

Secondary motif	LXRβ residues
Helix-1	Thr-221 to Val-249
Helix-3	Ala-261 to Val-289
Helix-4	Gly-291 to Gln-294
Helix 5	Gly-296 to Thr-308
Helix 6	Thr-308 to Arg-319
Sheet-1	Tyr-320 to His-322
Sheet-2	Glu-325 to Phe-329
Sheet-3	Phe-333 to Ser-336
Helix-7	Ser-336 to Ala-343
Helix-8	Gln-346 to Gly-364
Helix-9	Asp-366 to Ser-380
Helix-10	Pro-389 to Ile-409
Helix-11	Asp-414 to Gln-445
Helix-12	Pro-450 to Ile-456

An embodiment of this aspect of the invention provides a crystal produced using a sequence including helix 12 of LXRB. Preferably this is between Pro450 to Ile-456.

The crystals according to the invention may be usable in X-ray crystallography.

In another embodiment of the present invention there is provided a LXR β crystal as described above also including a ligand bound to LXR β or a portion thereof. Said ligand may be selected from T0901317

(N-(2,2,2-trifluoroethyl)-N-[4-[2,2,2-trifluoro-1-hydroxy-1-(trifluoromethyl)ethyl]phenyl]-benzenesulfonamide, CAS # [293754-55-9]; WO 00/54759), G-W-3965 (3-(3-(2-chloro-3-trifluoromethylbenzyl-2,2-diphenylethylamino)propoxy)phenylacetic acid, CAS # [405911-09-3]; Collins, Jon L.; et al. *J. Med. Chem.* (2002), 45(10),

N-[1-(2-furanyl)ethyl]-N-4-pyridinyl-tricyclo[3.3.1.13,7]decane-1-carboxamide (CAS # [355833-66-8], WO-01/60818) or any other ligand that binds with reasonably affinity (<1000 nM) to the internal LXR β binding cavity. The T0901317, G-W-3965 or any other ligand may be used with a coactivator ligand such as T1F2 NR-box 1.

1963-1966), 24(S),25-epoxycholesterol (CAS # [77058-74-3]),

In another embodiment of the present invention there is provided a crystal of LXR β LBD belonging to the space group P2₁2₁2₁ and having the unit cell dimensions a = 59 +/-3 Å, b = 100 +/-5 Å, c = 176 +/-3 Å, $a = b = g = 90^{\circ}$.

In another embodiment of the present invention there is provided a crystal of LXR β LBD belonging to the space group P6₁22 and having the unit cell dimensions a=59 +/-3 Å b= 59+/-3 Å c=294 +/-3 Å, a = b = 90°, g=120°.

In another embodiment of the present invention there is provided a crystal of LXR\$ LDB in complex with a coactivator peptide (such as a peptide corresponding to the first NR-box

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of TIF2 (Leers, Treuter et al 1998)) belonging to the space group $P2_12_12$ and having the unit cell dimensions a = 89 + 1/3, b = 91 + 1/3, c = 131 + 1/3, $a = b = g = 90^\circ$.

The crystals according to the invention may have a resolution as determined by X-ray crystallography of less than 3.6Å, preferably less than 2.9Å.

In another aspect of the present invention, there is provided a machine-readable data storage medium, comprising a data storage material encoded with machine readable data which, when using a machine programmed with instructions for using said data, is capable of displaying a graphical three-dimensional representation of a crystal structure as described above or a homologue of said crystal structure. Homologues include crystals with the same space group, but with another ligand, crystals with the same space group and substantially the same dimensions, and crystals using LXR β from other species.

In yet another aspect of the present invention, there is provided a method for designing a potential LXR β ligand for the treatment of diseases modulated by the LXR β , the method comprising the steps of:

- (a) employing computational means to perform a fitting operation between the chemical entity and a binding site of LXR β identified from a machine-readable storage medium as described above; and
- (b) analyzing the results of the fitting operation to predict the association between the potential chemical entity and the binding site.

Preferably the method also comprises the steps of:

- (c) synthesizing the potential LXR β ligand based on the crystal structure of the LXR β ; and
- (d) assaying the LXR β ligand for LXR β binding, response in a LXR β reporter cell line, measuring one or more in vivo effects including but not limited to lesion area of fatty streaks in the aortic root, lipoprotein profile and serum triglyceride levels.

The method may alternatively provide the steps of:

synthesising the potential LXR β ligand based on the crystal structure of said receptor; and

assaying the LXR β ligand binding response in a LXR β reporter cell line by measuring one or more *in vitro* effects, including but not limited to changes in the activity of a LXR response element driven reporter gene such as alkaline phosphatase, green fluorescent protein, or luciferase, changes indicating that the LXR β ligand may be used for treatment of diseases modulated by LXR β .

The LXR response element may be provided within, for example, a suitable plasmid containing the response element, reporter gene and suitable termination sequences. The reporter gene will be arranged so that expression of it is under the control of the response element.

Suitable vectors include, but are not limited to, bacterial or eukaryotic vectors such as plasmids or cosmids, phage vectors such as lambda phage, viral vectors such as adenoviral vectors or baculoviral vectors, and other vectors known in the art.

The vector preferably comprises suitable regulatory sequences to allow the nucleic acid molecule of the invention to be expressed in a suitable host cell to produce protein encoded by the nucleic acid molecule. Typically, the vector comprises a suitable promoter and terminator sequences, or other sequences such as poly A sequences, operably linked to the nucleic acid molecule. Such regulatory sequences are well known in the art.

The vector may also comprise a gene to allow the vector to be selected within a cell, such as an antibiotic resistance gene or a nutritional gene. Such genes are well known in the art.

The reporter gene is preferably Green Fluorescent Protein (GFP), which is known in the art. This fluoresces and enables the position of the kinase to be identified.

A further reporter system which may be used is lacZ gene from E.coli. This encodes the β -galactosidase enzyme. This catalyses the hydrolysis of b-galactoside sugars such as

lactose. The enzymatic activity in cell extracts can be assayed with various specialised substrates, for example X-gal, which allow enzyme activity quantitation using a spectrophotometer, fluorometer or a luminometer.

Alternatively, the reporter gene may be secreted alkaline phosphatase. This is a secreted enzyme which may be assayed from a supernatent by methods known in the art.

Luciferase, another known reporter gene, may be used. This is derived from the firefly (*Photinus pyralis*). It catalyses a reaction using D-luciferin and ATP in the presence of oxygen and Mg²⁺ to produce light emission. The amount of light produced, and hence the amount of reporter gene produced under the control of the reporter element, may then be quantified.

The inventors have also identified that helix-12 of LXR β plays a key role in determining the efficacy (agonism v. antagonism) of a ligand.

Accordingly, preferably the method includes the step of modifying the potential LXR β ligand so that it:

- (a) sterically displaces helix-12; or
- (b) disrupts the dimerisation surface.

The dimerisation interface has been identified as helices H10 and H11.

In yet another aspect of the present invention, there is provided a method of designing a ligand which will bind to LXR β comprising comparing the shape of a compound with the shape of the ligand binding cavity of LXR β as obtained from a crystal according to the invention, and determining which amino acid or amino acids of the ligand binding domain interact with said compound.

In yet another aspect of the present invention, there is provided a crystallized molecule or molecular complex comprising a binding pocket defined by the structure coordinates of human LXR β ligand binding domain amino acid residues 200 or a homologue of said

molecule or molecular complex wherein said homologue has a root mean square deviation form the backbone atoms of said amino acids of not more than 1.5 Å.

In a preferred embodiment of this aspect there is provided a crystallized molecule or molecular complex comprising a binding pocket defined by the structure coordinates of human LXRβ ligand binding domain amino acid residues Ser242, Phe268, Phe271, Thr272, Leu274, Ala275, Ser278, Ile309, Met312, Leu313, Glu315, Thr316, Arg319, Ile327, Phe329, Leu330, Tyr335, Phe340, Leu345, Phe349, Ile350, Ile353, Phe354, His435, Gln438, Val439, Leu442, Leu449, Leu453, Trp457 or a homologue of said molecule or molecular complex wherein said homologue has a root mean square deviation form the backbone atoms of said amino acids of not more than 1.5 Å.

A further aspect of the invention provides crystallisable compositions comprising at least 250 amino acid residues of the LXRβ ligand-binding domain.

A further aspect of the invention provides a method of using the crystal of the invention in a drug screening assay comprising:

- (a) selecting a potential ligand by performing rational drug design with the three-dimensional structure determined for the crystal, wherein said selecting is performed in conjunction with computer modelling;
- (b) contacting (i.e. docking) the potential ligand with the ligand binding domain of LXRβ; and
- (c) detecting the binding of potential ligand for the ligand binding domain Preferably, a potential drug is selected on the basis of it having a greater affinity for the ligand domain of LXRβ than that of a standard ligand for the ligand binding domain of LXRβ. Alternatively, potential drugs may be selected by looking for those from a number of potential drugs with the greatest binding affinity.

Preferably the standard ligand in step (c) is T0901317, GW3965, or 24(S),25-epoxycholesterol.

The method may further comprise:

- (d) growing a supplemental crystal containing a protein ligand complex formed between the N-terminal truncated LXRβ and the potential drug, wherein the crystal effectively diffracts X-rays for the determination of the atomic coordinates of the protein-ligand complex to a resolution of greater than 5.0 Å;
- (e) determining the three-dimensional structure of the supplemental crystal with molecular replacement analysis;
- (f) selecting a candidate drug by performing a rational drug design with the three-dimensional structure determined for the supplemental crystal, wherein said selecting is performed in conjunction with computer modelling;
- (g) contacting a cell that expresses LXRβ; and
- (h) detecting a measure of protein synthesis in the cell; wherein a candidate drug is identified as a drug when it inhibits or enhances the expression of protein synthesis in the cell.

The method preferably comprises an initial step that precedes steps (a) wherein initial step consists of determining the three-dimensional structure of a crystal comprising a protein-ligand complex formed between an N-terminal truncated LXRβ and T0901317, GW3965, or 24(S),25-epoxycholesterol, wherein the crystal effectively diffracts X-rays for the determination of the atomic coordinates of the protein-ligand complex to a resolution of greater than 5.0 Å.

The invention also provides a method of using a crystal of the invention in a drug screening assay comprising:

- (a) selecting a potential ligand by performing rational drug design with the three-dimensional structure determined for the crystal, wherein said selecting is performed in conjunction with computer modelling;
- (b) adding the potential ligand to a cDNA or protein expression assay regulated by LXRβ;
- (c) detecting a measure of a cDNA or protein expression; wherein a potential ligand that regulates the expression of protein expression is selected as a potential drug.

Such cDNA or protein expression assays are themselves known per se in the art. Preferably the assay is in vitro.

Computers for producing a 3D representation are also provided, the representation being of:

- (a) a molecule or molecular complex, wherein said molecule or molecular complex comprises a binding pocket defined by the structure coordinates of LXRβ amino acid residues Ser242, Phe268, Phe271, Thr272, Leu274, Ala275, Ser278, Ile309, Met312, Leu313, Glu315, Thr316, Arg319, Ile327, Phe329, Leu330, Tyr335, Phe340, Leu345, Phe349, Ile350, Ile353, Phe354, His435, Gln438, Val439, Leu442, Leu449, Leu453, Trp457 according to the co-ordinate tables; or
- (b) a homolog of said molecule or molecular complex, wherein said homolog comprises a binding pocket that has a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å, wherein said computer comprises:
- (i) a computer-readable data storage medium comprising a data storage material encoded with computer-readable data, wherein said data comprises the structure of LXRβ amino acid residues Ser242, Phe268, Phe271, Thr272, Leu274, Ala275, Ser278, Ile309, Met312, Leu313, Glu315, Thr316, Arg319, Ile327, Phe329, Leu330, Tyr335, Phe340, Leu345, Phe349, Ile350, Ile353, Phe354, His435, Gln438, Val439, Leu442, Leu449, Leu453, Trp457 according to any one of the co-ordinate tables;
- (ii) a working memory of storing instructions for processing said computer-readable data;
- (iii) a central-processing unit coupled to said working memory and to said computer-readable data storage medium for processing and computer-machine readable data into said three-dimensional representation; and
- (iv) a display coupled to said central-processing unit for displaying said three-dimensional representation.

Preferably the computer produces a 3D representation of:

- (a) a molecule or molecular complex defined by structure coordinates of all of the LXR β ligand binding domain amino acid residues set forth in the co-ordinate tables; or
- (b) a homolog of said molecule or molecular complex, wherein said homolog comprises a binding pocket that has a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å; and wherein said computer readable data contains the coordinates of all of the LXRβ ligand binding domain amino acid residues as set forth in any one of the co-ordinate tables.

The invention also provides methods for determining the 3D structure of a complex between LXRβ and a ligand, therefore, which comprises:

- (a) obtaining x-ray diffraction data for crystals of the complex; and
- (b) utilizing a set of atomic coordinates a portion thereof according to the invention; and coordinates having a root mean square deviation therefrom with respect to conserved protein backbone atoms of not more than 1.5Å to define the three-dimensional structure of the complex.

A still further aspect of the invention provides a method for determining a modelling structure of a protein containing LXR β or a complex of said protein and a ligand, which method comprises:

- (a) providing a three-dimensional structure defined by a set of coordinates or a portion thereof according to the invention; and coordinates having a root mean square deviation therefrom with respect to conserved protein backbone atoms of not more than 1.5Å;
- (b) generating a three-dimensional model structure of the protein containing LXR β using a homology modelling method and the structure of step (a) as a template; and
- (c) subjecting the resulting model to molecular mechanics energy minimization.

The term "rational drug design", as used herein, is defined as the designing of drugs for specific purposes, such as the binding to a predetermined receptor or the treatment of a predetermined disease. Examples include the designing of a drug to specifically bind

and/or modulate nuclear hormone receptor binding, and the design of drugs to prevent or treat atherosclerosis. This is based upon the knowledge of molecular properties such as binding modes and interaction of the drug to its receptor as revealed by x-ray crystallography; the contribution of various functional groups contained in the drug to the affinity and specificity of the binding of the drug to its target; molecular geometry and electronic structure of drug and its target; and an information catalogued on analogous drug molecules. Such drug design is usually based on computed-assisted modelling and does not usually include pharmacokimetics, dosage analysis or drug administration analysis.

Computer modelling is the theoretical representation of data that simulates the behaviour or activity of systems, processes or phenomena. This includes the use of mathematical equations, computers and other electrical equipment. In the context of drug design, computer modelling allows the simulation of the strength of interaction between a drug conclictal and its target receptor.

Isolated proteins consisting essentially of the LBD of LXR β , vectors encoding such proteins and host cells are also provided. the isolated protein may be attached to a tag, such as a his-tag.

Drug candidates are potential drugs. That is, they include compounds which have initial indications that they will have potential clinical use or activity.

The term "supplemental crystal" refers to a second, additional, crystal complexed with a further, different LXR β ligand.

The term "standard ligand" refers to a known, characterised, ligand.

STRUCTURE BASED DESIGN OF LXR LIGANDS

The present invention elucidates the structure of the ligand-binding cavity of LXRβ. Knowledge of the structure of this cavity has utility in the design of structurally novel LXRβ ligands and in the design of non-obvious analogues of known LXRβ ligands with improved properties. These enhanced properties include one or more of the following: (1) higher affinity, (2) improved selectivity for LXRβ vs. related nuclear hormone receptors and/or (3) a designed degree of efficacy (agonism vs. partial agonism vs. antagonism). Without knowledge of the LXRβ structure, modifications to produce ligands with enhanced properties and a reasonable likelihood of success would not be available to those skilled in the art. The LXRβ structure also has utility in the discovery of new, structurally novel classes of LXRβ ligands. Electronic screening of large, structurally diverse compound libraries such as the Available Chemical Directory (ACD) will identify new structural classes of LXRβ ligands which will bind to the 3-dimensional structure of the LXRβ. Additionally the LXRβ structure allows for "reverse–engineering" or "de novo design" of compounds to bind to LXRβ.

(1) Enhanced Affinity

The present invention has revealed the size and shape of the interior binding cavity for representative LXRβ ligands T0901317 and GW-3965. The sizes and shapes of the cavities were delineated using the PASS program ("Fast Prediction and Visualization of Protein Binding Pockets With PASS"; G.P. Brady, Jr. and P.F.W. Stouten; J. Comp.-Aided Mol. Design, 14: 383-401, 2000). The interior binding cavity of LXRβ/T0901317 complex is shown in **Figure 6** (left) and has the dimensions of 13.1 x 9.2 x 7.5 Å along the first, second, and third principle moments of inertia respectively. The interior binding cavity of LXRβ/GW-3965 complex is shown in **Figure 6** (right) and has the dimensions of 17.0 x 11.9 x 8.0 Å along the first, second, and third principle moments of inertia respectively. In addition, this structure reveals a narrow "water-channel" adjacent to the cavity occupied by T0901317 and GW-3965.

Ligands which occupy as much of the interior binding cavities including the unoccupied "water-channels" as revealed by the LXR β /T0901317 and LXR β /GW-3965 complexes without sterically colliding with the receptor will provide ligands with higher affinity than either T0901317 or GW-3965.

The present invention has also revealed the presence of a histidine residue (His-435) which forms a very strong hydrogen bond with the acidic hydroxyl group of the ligand TO901317 [Ne – $OC(CF_3)_2Ar$) distance = 2.6 Å]. In addition, the sulfonyl oxygen atom of ligand TO901317 forms a weak hydrogen bond to the Ser-278 (Og – O=S=O distance = 4.1 Å). New ligands which preserve the strong hydrogen bond by an appropriately placed acidic hydrogen atom to interact with the Ne atom of His-435 and in addition place a hydrogen bond donating group closer to the Og atom of Ser-278 will show enhanced affinity for LXR β relative to TO901317.

The present invention also reveals that there are a number of unsatisfied hydrogen bond partners in the ligand binding cavity (see **Figure 7**). These include the backbone carbonyl group of Phe-271 and the sidechain Og atoms of Thr-272 and Thr-316. Introduction of appropriately positioned hydrogen bond donating substituents on the ligand which form strong hydrogen bonds to one or more of these three hydrogen bond accepting groups in the receptor binding cavity will serve to enhance affinity.

The ligands produced in accordance with the invention bind more effectively to the LXRβ than TO901317. The ligand may bind with twice the binding affinity of TO901317, preferably three times the affinity, and most preferably ten or more times the affinity.

Preferably, the ligand produced in accordance with the invention occupies as much of the interior binding cavities of LXRβ as revealed by the LXRβ/T0901317 and LXRβ/GW-3965 complexes without perturbing the remainder of the LXRβ structure.

Preferably, the ligand produced in accordance with the invention also forms a hydrogen bond with the Ne atom of His-435 and at least one additional hydrogen bond to either Phe-271 (backbone carbonyl group), Thr-272 (Og), Ser-278 (Og), or Thr-316 (Og) of LXRβ without perturbing the remainder of the LXRβ structure.

(2) Improved Selectivity

The LXRβ receptor is very closely related to the LXRα and relatively closely related to the RXR, PXR, FXR, PPAR receptors. The RXR, PXR, FXR, PPAR receptors differ significantly in their primary sequence and slightly in their tertiary structure. As a consequence of these receptor differences, ligands may bind with different affinity to these four receptors.

The closest amino acid difference between LXR α and LXR β in the vicinity of the bound ligand is Ala-294(a)/Thr-308(b). This is in turn next to Met-298(a)/312(b) which directly lines the binding cavity. Rotation about the c_3 sidechain of to Met-298(a) is more facile in LXR α than in LXR β due to the presence of the smaller Ala-294(a) residue. Therefore subsituents from the ligand which push on Met-298(a) will afford ligand that are selective for LXR α over LXR β .

Furthermore, a detailed understanding of the different receptors enables the different behaviour of a compound in different tissues to be understood, for example the selective liver X receptor modulators (SLXRMs) on the tissue in which it is active. LXR α and LXR β have different tissue distributions and therefore ligands which display LXR isoform binding selectivity will also display tissue selectivity.

The present invention provides new ligands which exploit these differences by positioning ligand substituents in close proximity to one or more amino acid residue that differ between LXRβ and RXR, PXR, FXR, PPAR.

The ligands produced in accordance with the invention bind more effectively to the LXR β receptor than to the RXR, PXR, FXR, or PPAR receptor. The selectivity of the binding to the LXR β receptor may be tenfold, more preferably one hundred-fold, and most preferably greater than one thousand-fold.

(3) Modulation of Efficacy

This invention provides an understanding of the differences between LXR\$\beta\$ agonist and antagonist binding and therefore a means to design LXR\$\beta\$ ligands with the desired degree

of efficacy. An examination of the differences between the ERa/estradiol (agonist; PDB accession code: 1ERE) and ERb/raloxifene (agonist; PDB accession code: 1ERR) complexes reveals a large movement in Helix-12. H12 adopts an "agonistic" conformation defined by the structure of the ERa/estradiol complex and an "antagonistic" conformation defined by the structure of the ERb/raloxifene complex. These two conformations are in thermodynamic equilibrium. When the ER is complexed with a full agonist, such as estradiol, the equilibrium lies far in the direction of the "agonistic" conformation. In contrast, while when complexed with an antagonist, the equilibrium is pushed in the direction of the "antagonistic" conformation. In the case of raloxifene ER ligand, the bulky side-chain collides with H12 in its agonistic conformation, thereby driving the equilibrium in the antagonistic direction. By introduction of progressively shorter side chains in raloxifene, the equilibrium will be gradually shifted back towards the agonist conformation. By analogy, replacement of one of the fluorine atoms of the hexafluoroisopropanol group of TO901317 will sterically collide with H12 in LXRβ. Thus, this invention provides a means of developing ligands with the desired degree of efficacy (agonist, partial agonist, or antagonist).

In particular, the importance of H12 has been determined as playing a central role in determining the efficacy (agonism vs. antagonism) of a ligand. Thus, ligands which are able to bind to and/or alter the conformation of H12 are of particular importance when designing a ligand or assessing the binding of a ligand, for the LXRβ receptor.

Additionally, it has been found that at least the majority of such receptor proteins when activated by binding to an agonist ligand are in the form a dimer (Khorasanizadeh S, Rastinejad F. 2001). Such dimerization leads to a potential route for disruption. Disruptions of this type can be used to predict antagonism or to produce antagonists. Disruptions may take the form of ligand binding which alters the conformation of the helices that comprise the dimerization interface or direct binding to the dimerization interface which then inhibits dimerization.

Further, the orientation of the ligand may be keyed to the receptor, in the dimeric or monomeric form. Furthermore, using the crystals of the present invention, the influence of

ligand binding to the LDB on the receptor conformation can now be shown to have influences on the behaviour of the receptor since it may disrupt the binding of co-activator, co-repressor, or heat-shock proteins. Previously, such predictions could not me made.

PRODUCTION OF LIVER X RECEPTOR 6 CRYSTALS AND THEIR APPLICATION

The present inventors have been able to isolate, differentiate and produce crystals for the liver X receptor b.

The crystal may be produced from a sequence comprising at least 250 amino acids, and preferably at least 200 amino acids of LXR β . More preferably, the sequence comprises at least a portion of the ligand-binding domain of LXR β . Alternatively, the sequence comprises the whole ligand-binding domain of LXR β .

Advantageously, the crystals have a resolution determined by X-ray crystallography of less than 3.6 Å and most preferably less than 2.9 Å.

The production of such crystals has enabled the three dimensional structure of the ligand binding domain of LXR β to be mapped. Use of such crystals in conjunction with the map enables a better understanding of how T0901317, GW3965 and other ligands bind to LXR β with precision. This technique can also enable the design of receptor selective LXR β agonists and antagonists since now the precise differences in the binding sites between LXR β and the closely related LXR α .

Crystals of the LXR β ligand-binding domain can be used as models in methods for the design of synthetic compounds intended to bind to the receptor. Such models show why very slight differences in chemical moieties of a ligand potentially have widely varying binding affinities. Hence, the three dimensional structure of the ligand binding domain can be used as a pharmaceutical model for compounds which bind to Liver X receptors.

Embodiments of the invention will now be described in more detail, by way of example, with reference to the accompanying drawing.

FIGURE LEGENDS

Figure 1. Cartoon view of the LXRβ receptor with labeled helices.

Figure 2 shows representative portions of a 2.4Å resolution SigmaA weighted 2
Fobs-Fcalc map where Fobs are the observed and Fcalc are the calculated structure-factor amplitutes and 2Fobs-Fcalc is the difference Fourier synthesis electron density map in which model error is reduced and electron density at the chosen contour (mesh diagram) approximates the molecular surface for the LXRβ/GW3965 complex. The structure of GW3965 (tube diagram) is fitted to the experimental electron density (mesh diagram).

Figure 3. Superposition of the LXRβ/T0901317 (carbons black) and the LXRβ/GW3965 (carbons light grey) complexes reveal dramatic changes in the ligand-binding pocket.

Figure 4. Residues that are within hydrogen bond distance or van der Waals (4.2 Å) distance to the ligand are labeled. Dashed lines indicate hydrogen bonds and lines indicate Van der Waals interactions. These interactions are shown in (a) for the LXRβ/T0901317 complex, and in (b) for the LXRβ/GW3965.

Figure 5(a). Full length natural sequence of human LXR β .

Figure 5(b). The crystallized protein sequence with the first four non-LXR β residues gshm and the remaining 213-416 originating from human LXR β .

Figure 6. Interior binding cavity of the LXRβ/T0901317 complex (left) and LXRβ/GW-3965 (right). The Ca-trace of the protein is represented by solid line. The structure of the ligand T0901317 and GW-3965 ligands are represented by a ball-and-stick diagram. The binding cavity is represented by a transparent surface which is filled by PASS probe spheres (dots).

Figure 7. Unsatisfied hydrogen bonding partners (backbone carbonyl groups of Phe-266, Phe-271, Met-312 and side-chain hydroxyl groups of Thr-272, Thr-316) as revealed by the LXRβ/T0901317 complex. Structure of T0901317 is represented by a capped sticks figure surrounded by the interior binding cavity of the receptor (transparent surface). Key amino acid residues are represented by labeled capped-stick. Hydrogen bonding accepting sites on the surface of the receptor binding cavity are represented by solid surfaces.

DNA construction work

The human LXRβ sequence is publicly available with accession number P55055 (SwissProt.) (Shinar, D.M. et al. (1994)). A construct spanning Gly213-Glu461 with the addition of an N-terminal 6xHis tag was used in the present work. The His-tag was designed to be cleavable using thrombin.

Protein production

The protein was expressed in *Escherichia coli* BL21 StarTM (DE3) cells (Invitrogen) using the pET28a expression system. Fermentation was carried out in batch culture (2xLB medium, 22°C) and expression of the recombinant protein was induced by the addition of 0.55mM IPTG (isopropyl-B-D-thiogalactoside) at OD₆₀₀=5.0. After 4h of induction the cells were harvested by centrifugation. The cell pellet was resuspended and washed once with buffer (20 mM HEPES pH 8.0, 100 mM KCl, 10% glycerol and 2.5 mM monothioglycerol). Final cell pellet was frozen at –70°C.

40g cells were lysed by glass beadbeater (BioSpec Products, Inc.) in extract buffer containing 50 mM Tris, pH8.8, 250 mM NaCl, 10% glycerol and 1 mM PMSF. Soluble protein extract were collected by centrifugation at 11000 rpm, 20 min in Sorvall RC-5B centrifuge (Du Pont-instrument AB), GSA rotor.

Protein purification

Crude LXRβ was eluted from 25 ml Talon by 20 mM Tris, pH8.0, 100 mM imidazole. Further purification was achieved using anion-exchange chromatography (5 ml Hitrap Q FF ion exchange column, Amersham Bioscience), and applying a gradient from 0 to 250

mM NaCl, pH8.0, eluted LXRβ. After thrombin cleavage, the final LXRβ (6-7 mg) fraction was obtained by running 4% acryl amide native gel electrophoresis in Tris-Epps buffer system.

Protein quality analysis

To elucidate the homogeneity of LXRβ, throughout the purification samples were collected and run on SDS and native PAGE gels (Phast, Amersham Biosciences, Sweden). Reverse phase HPLC runs were performed on a Waters HPLC system (Waters, USA) at denaturing conditions. Typically, 100 ml sample was acidified by addition of 10% acidic acid (final concentration). A sample was injected and eluted in a 25-75% acetonitrile-water gradient in 0.1% triflouroacidic acid at 1 ml/min. The method proved to be very useful to reveal problems with ligand binding and LXRβ stability and for determine the concentration and LXRβ-ligand ratio.

Crystallization and data collection

Crystallization was carried out using the hanging drop vapour-diffusion technique. Both LXRβ-GW9365 and LXRβ-T0901317 crystals were grown from buffer containing 8.5% iso-propanol, 17% PEG 4000, 85 mM HEPES, pH7.5, and 15% Glycerol at room temperature. The first LXRβ/T0901317 crystals formed in the P6122 space group, with a=b=58.7,c=293.8 and diffracted to better than 3 Å. In the same drops another crystal form was later detected belonging to the P212121 space group. Before data collection, crystals were flash-frozen in the 100 K nitrogen gas stream of an Oxford cryostream700. Data was either collected with an MAR345 image plate detector using X-rays from a Rigaku H3R rotating anode generator + Osmic Confocal Max-Fluxä optics or with a ADSC Q4R CCD at Experimental Station ID14-4 at ESRF. The observed reflections where reduced, merged and scaled with MOSFLM, and Scala in the CCP4 package.

Structure determination and refinement

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The structure was determined by molecular replacement methods with the CCP4 AmoRe program (Acta. Cryst. D50 (1994), pages 760-763), using an LXRβ homology model based on a thyroid hormone receptorb structures (Protein Databank Accession Code 1NAX). A publicly available structure such as 1bsx.pdb, from the Protein Data Bank, could also have been used to create the model. The molecular replacement was done on the first 3 Å data of LXRβ/T0901317 crystallized in P6122 and revealed one monomer per asymmetric unit. The crystal packing along one of the 2-folds revealed that the protein formed a tight homodimer, which allowed us to use the homodimer to search the second crystal form P212121 that gave 2 homodimers in the asymmetric unit. Electron densities for the T0901317 ligand confirmed the solutions of the molecular replacement. Model building was done with O and refinement initially with CNX and later with the CCP4 Refmac program and manual rebuilding. The four monomer complexes where treated as single TLS groups in Refmac which gave more interpretable electron density maps and improved the R-factors substantially.

Table 1. Summary of data collection, processing and refinement.

Table 1. Summary of da	ata concetion, proce	
Complex	LxRβ/T0901317	LxRβ/GW3965
Data collection		
Source	In house	ID14 EH4 ESRF
Space group	P212121	P212121
Unit cell parameters		
a	58.7	58.7
b	103.3	98.9
c	176.0	175.8
Resolution	2.8 Å	2.4 (2.4-2.53)
	(2.8-2.95Å)	
Observations		
Unique	27153	37733
Total	92460	1129438
Completeness (%)	99.9 (99.7)	98.5(95.4)
<i> / <s(i)></s(i)></i>	7.6 (1.9)	8.8(3.5)
Rsym %	8.4 (40.2)	5.0(21.8)
Refinement		
Rwork	19.5 (27.9)	20.7(21.8)
Rfree	26.2 (34.8)	26.3(29.6)
Number of atoms	7782	7673
R.m.s deviation		
Bonds (Å)	0.016	0.016
Angles (°)	1.49	1.36
Average B-factor	24.3	23.1
(\mathring{A}^2)		

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TITLE HUMAN LXR BETA HORMONE RECEPTOR /

TITLE 2 KB043546/WAY207380/GW3965 COMPLEX

REMARK

REMARK

REMARK ATOMIC COORDINATES OF A CRYSTAL STRUCTURE

REMARK

REMARK DEPOSITOR: MATHIAS FARNEGARDH

(MATHIAS.FARNEGARDH@KAROBIO.SE)

REMARK DEPOSITION DATE 5-SEP-2002

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REMARK THIS ENTRY CONTAINS THE COMPLETE CONTENT OF THE ASYMETRIC UNIT

REMARK THAT COULD BE BUILT INTO INTERPRETABLE ELECTRON DENSITIES

REMARK IT CONTAINS 4 INDEPENDENTLY REFINED PROTEIN MONOMERS

REMARK CHAIN A 220-242, 247-253, 259-460 (HIS460 MODELLED AS ALA)

REMARK A500 IS THE LIGAND

REMARK CHAIN B 220-460 (HIS460 MODELLED AS ALA) B500 IS THE LIGAND

REMARK CHAIN C 220-252, 264-438 THERE ARE WEAK DENSITIES

SUGGESTING A LOW

REMARK OCCUPANCY OF THE LIGAND. EXPERIMENTS TO ESTIMATE THE OCCUPANCY

REMARK SUGGESTS AN OCCUPANCY AROUND 0.5-0.6. THERE ARE ALSO SOME WEAK BUT

REMARK UNINTERPRETABLE DENSITY IN THE REGION WHERE H12 SITS IN THE A B AND

REMARK D CHAINS.

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29

REMARK CHAIN D 220-244, 248-254, 263-444, 448-460 (HIS460 MODELLED AS ALA)

REMARK D500 IS THE LIGAND

REMARK THE PROTEIN CRYSTALLIZED CONTAIN RESIDUES 213-461, THE **GAPS IN THE**

REMARK STRUCTURE ARE DUE TO UNINTERPRETABLE

ELECTRONDENSITIES IN THESE

REMARK PARTICUALR REGIONS

HEADER LXRB+KB043546/WAY207380/GW3965 05-SEP-02 XXXX

COMPND MOL ID: 1;

COMPND 2 MOLECULE: LIVER X RECEPTOR BETA;

COMPND 3 CHAIN: A, B, C, D;

COMPND 4 FRAGMENT: LIGAND BINDING DOMAIN;

COMPND 5 SYNONYM: LXRB;

REMARK 3

REMARK 3 REFINEMENT.

REMARK 3 PROGRAM : REFMAC 5.1.19

REMARK 3 AUTHORS : MURSHUDOV, VAGIN, DODSON

REMARK 3

REMARK 3 REFINEMENT TARGET: MAXIMUM LIKELIHOOD

REMARK 3

REMARK 3 DATA USED IN REFINEMENT.

REMARK 3 RESOLUTION RANGE HIGH (ANGSTROMS): 2.40

REMARK 3 RESOLUTION RANGE LOW (ANGSTROMS): 87.71

REMARK 3 DATA CUTOFF (SIGMA(F)): NONE

REMARK 3 COMPLETENESS FOR RANGE (%): 98.41

REMARK 3 NUMBER OF REFLECTIONS : 38254

REMARK 3

REMARK 3 FIT TO DATA USED IN REFINEMENT.

REMARK 3 CROSS-VALIDATION METHOD : THROUGHOUT

REMARK 3 FREE R VALUE TEST SET SELECTION: RANDOM

REMARK 3 R VALUE (WORKING + TEST SET): 0.20934

REMARK 3 R VALUE (WORKING SET): 0.20655

REMARK 3 FREE R VALUE

REMARK 3 FREE R VALUE TEST SET SIZE (%): 5.0

REMARK 3 FREE R VALUE TEST SET COUNT : 2021

REMARK 3

REMARK 3 FIT IN THE HIGHEST RESOLUTION BIN.

REMARK 3 TOTAL NUMBER OF BINS USED 20

REMARK 3 BIN RESOLUTION RANGE HIGH : 2.400

: 2.462 REMARK 3 BIN RESOLUTION RANGE LOW

REMARK 3 REFLECTION IN BIN (WORKING SET): 2689

(WORKING SET): 0.218 REMARK 3 BIN R VALUE

REMARK 3 BIN FREE R VALUE SET COUNT

REMARK 3 BIN FREE R VALUE : 0.296

REMARK 3

REMARK 3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.

: 0.26237

REMARK 3 ALL ATOMS : 7673

30

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REMARK 3
REMARK 3 B VALUES.
REMARK 3 FROM WILSON PLOT (A**2): NULL
REMARK 3 MEAN B VALUE (OVERALL, A**2): 23.076
REMARK 3 OVERALL ANISOTROPIC B VALUE.
REMARK 3 B11 (A**2): -0.75
REMARK 3 B22 (A**2): 1.03
REMARK 3 B33 (A**2): -0.28
REMARK 3 B12 (A**2): 0.00
REMARK 3 B13 (A**2): 0.00
REMARK 3 B23 (A**2): 0.00
REMARK 3
REMARK 3 ESTIMATED OVERALL COORDINATE ERROR.
                                           (A): 0.511
REMARK 3 ESU BASED ON R VALUE
REMARK 3 ESU BASED ON FREE R VALUE
                                             (A): 0.288
                                                  (A): 0.208
REMARK 3 ESU BASED ON MAXIMUM LIKELIHOOD
REMARK 3 ESU FOR B VALUES BASED ON MAXIMUM LIKELIHOOD (A**2):
8.796
REMARK 3
REMARK 3 CORRELATION COEFFICIENTS.
REMARK 3 CORRELATION COEFFICIENT FO-FC : 0.939
REMARK 3 CORRELATION COEFFICIENT FO-FC FREE: 0.901
REMARK 3
REMARK 3 RMS DEVIATIONS FROM IDEAL VALUES
                                              COUNT RMS
WEIGHT
                                         (A): 7652; 0.016; 0.022
REMARK 3 BOND LENGTHS REFINED ATOMS
REMARK 3 BOND LENGTHS OTHERS (A): 7154; 0.003; 0.020
REMARK 3 BOND ANGLES REFINED ATOMS (DEGREES): 10342; 1.363; 1.979
                                  (DEGREES): 16577; 0.924; 3.000
REMARK 3 BOND ANGLES OTHERS
REMARK 3 TORSION ANGLES, PERIOD 1 (DEGREES): 898; 5.477; 5.000
                                      (A**3): 1164; 0.083; 0.200
REMARK 3 CHIRAL-CENTER RESTRAINTS
REMARK 3 GENERAL PLANES REFINED ATOMS (A): 8318; 0.005; 0.020
REMARK 3 GENERAL PLANES OTHERS
                                      (A): 1612; 0.004; 0.020
REMARK 3 NON-BONDED CONTACTS REFINED ATOMS (A): 1763; 0.203;
0.200
REMARK 3 NON-BONDED CONTACTS OTHERS
                                          (A): 8183; 0.216; 0.200
REMARK 3 NON-BONDED TORSION OTHERS
                                         (A): 4673; 0.086; 0.200
                                       (A): 186; 0.209; 0.200
REMARK 3 H-BOND (X...Y) REFINED ATOMS
REMARK 3 SYMMETRY VDW REFINED ATOMS
                                          (A): 22; 0.174; 0.200
REMARK 3 SYMMETRY VDW OTHERS
                                       (A): 98; 0.237; 0.200
REMARK 3 SYMMETRY H-BOND REFINED ATOMS (A): 8; 0.142; 0.200
REMARK 3
REMARK 3 ISOTROPIC THERMAL FACTOR RESTRAINTS. COUNT RMS
WEIGHT
REMARK 3 MAIN-CHAIN BOND REFINED ATOMS (A**2): 4554; 0.534; 1.500
REMARK 3 MAIN-CHAIN ANGLE REFINED ATOMS (A**2): 7368; 1.039; 2.000
REMARK 3 SIDE-CHAIN BOND REFINED ATOMS (A**2): 3098; 1.749; 3.000
REMARK 3 SIDE-CHAIN ANGLE REFINED ATOMS (A**2): 2974; 2.997; 4.500
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REMARK 3
REMARK 3 NCS RESTRAINTS STATISTICS
REMARK 3 NUMBER OF NCS GROUPS: NULL
REMARK 3
REMARK 3
REMARK 3 TLS DETAILS
REMARK 3 NUMBER OF TLS GROUPS: NULL
REMARK 3
REMARK 3
REMARK 3 BULK SOLVENT MODELLING.
REMARK 3 METHOD USED: BABINET MODEL WITH MASK
REMARK 3 PARAMETERS FOR MASK CALCULATION
REMARK 3 VDW PROBE RADIUS: 1.40
REMARK 3 ION PROBE RADIUS: 0.80
REMARK 3 SHRINKAGE RADIUS: 0.80
REMARK 3
REMARK 3 OTHER REFINEMENT REMARKS:
REMARK 3 HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS
REMARK 3
LINK
          SER A 242
                             PRO A 247
                                             gap
LINK
          PRO A 253
                             ALA A 259
                                             gap
LINK
          TRP C 252
                             ARG C 264
                                             gap
                             LYS D 248
LINK
          SER D 244
                                             gap
LINK
          LEU D 254
                             ALA D 263
                                             gap
LINK
          LEU D 444
                             LYS D 448
                                             gap
CRYST1 58.717 98.929 175.815 90.00 90.00 90.00 P 21 21 21
         0.017031 0.000000 0.000000
                                    0.00000
SCALE1
         0.000000 0.010108 0.000000
SCALE2
                                    0.00000
SCALE3
         0.000000 0.000000 0.005688
                                    0.00000
                        25.060 40.930 59.913 1.00 15.13
ATOM
        1 N LEU A 220
                                                        N
ATOM
        3 CA LEU A 220
                         26.289 40.159 60.353 1.00 15.45
                                                         C
                         27.291 39.950 59.207 1.00 15.67
                                                         C
ATOM
        5 CB LEU A 220
ATOM
        8 CG LEU A 220
                         27.116 38.849 58.140 1.00 17.66
                                                         C
ATOM
       10 CD1 LEU A 220
                          28.185 38.981 57.007 1.00 17.73
                                                          C
       14 CD2 LEU A 220
                          27.141 37.466 58.708 1.00 17.30
                                                          C
ATOM
ATOM
       18 C LEU A 220
                         26.986 40.905 61.486 1.00 14.86
                                                        C
                         27.349 42.061 61.313 1.00 13.74
ATOM
       19 O LEU A 220
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       22 N THR A 221
                         27.168 40.237 62.630 1.00 14.79
ATOM
                                                         N
                          27.969 40.775 63.735 1.00 15.28
ATOM
       24 CA THR A 221
                                                         C
                          27.770 39.961 65.068 1.00 14.97
ATOM
       26 CB THR A 221
                                                         C
ATOM
       28 OG1 THR A 221
                         28.449 38.717 64.998 1.00 15.18
                                                          0
       30 CG2 THR A 221
                          26.346 39.558 65.290 1.00 16.01
ATOM
                                                          C
ATOM
       34 C THR A 221
                         29.479 40.828 63.378 1.00 15.09
                                                         C
                         29.945 40.137 62.487 1.00 14.81
ATOM
       35 O THR A 221
                                                         0
ATOM
       36 N ALA A 222
                         30.220 41.648 64.105 1.00 15.21
                                                         N
       38 CA ALA A 222 31.673 41.759 63.960 1.00 15.24
ATOM
                                                         C
ATOM
       40 CB ALA A 222
                        32.183 42.803 64.908 1.00 15.12
                                                         C
ATOM
       44 C ALA A 222
                         32.421 40.431 64.177 1.00 15.76
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ATOM	45 O ALA A 222	33.417 40.152 63.507 1.00 16.04	О
ATOM	46 N ALA A 223	31.952 39.609 65.108 1.00 15.81	N
ATOM	48 CA ALA A 223	32.576 38.301 65.341 1.00 15.78	С
ATOM	50 CB ALA A 223	31.954 37.600 66.563 1.00 15.45	С
ATOM	54 C ALA A 223	32.422 37.402 64.114 1.00 16.06	С
ATOM	55 O ALA A 223	33.327 36.657 63.773 1.00 16.18	0
ATOM	56 N GLN A 224	31.243 37.424 63.507 1.00 15.96	N
ATOM	58 CA GLN A 224	30.985 36.638 62.309 1.00 16.40	C
ATOM	60 CB GLN A 224	29.479 36.583 61.976 1.00 16.76	C
ATOM	63 CG GLN A 224	28.626 35.831 62.969 1.00 16.46	C
ATOM	66 CD GLN A 224	27.129 35.920 62.618 1.00 17.67	С
ATOM	67 OE1 GLN A 224	26.636 36.996 62.252 1.00 16.55	O
ATOM	68 NE2 GLN A 224	26.411 34.785 62.731 1.00 14.22	N
ATOM	71 C GLN A 224	31.741 37.181 61.106 1.00 15.81	С
ATOM	72 O GLN A 224	32.261 36.418 60.344 1.00 15.71	0
ATOM	73 N GLU A 225	31.816 38.490 60.933 1.00 16.23	N
ATOM	75 CA GLU A 225	32.632 39.039 59.846 1.00 17.17	C
ATOM	77 CB GLU A 225	32.440 40.554 59.707 1.00 17.63	C
ATOM	80 CG GLU A 225		С
ATOM	83 CD GLU A 225	31.003 42.396 58.650 1.00 27.29	C
ATOM	84 OE1 GLU A 225	32.021 42.978 58.212 1.00 32.71	0
ATOM	85 OE2 GLU A 225	29.883 42.995 58.837 1.00 28.94	0
ATOM	86 C GLU A 225	34.116 38.668 60.044 1.00 16.92	С
ATOM	87 O GLU A 225	34.793 38.247 59.108 1.00 15.82	0
ATOM	88 N LEU A 226	34.604 38.786 61.279 1.00 17.48	N
ATOM	90 CA LEU A 226	35.961 38.343 61.622 1.00 17.76	С
ATOM	92 CB LEU A 226	36.204 38.469 63.124 1.00 17.63	C
ATOM	95 CG LEU A 226	37.549 37.979 63.657 1.00 17.25	C
ATOM		38.661 38.747 63.038 1.00 17.37	С
ATOM		37.599 38.118 65.172 1.00 19.01	C
ATOM	105 C LEU A 226	36.238 36.910 61.164 1.00 18.47	C
ATOM	106 O LEU A 226	37.164 36.666 60.408 1.00 17.08	Ō
ATOM	107 N MET A 227	35.391 35.991 61.610 1.00 19.43	N
ATOM		35.537 34.586 61.306 1.00 21.31	C
ATOM		34.540 33.752 62.145 1.00 22.11	C
ATOM	114 CG MET A 227		Č
ATOM	117 SD MET A 227		S
ATOM	118 CE MET A 227	32.594 32.703 64.096 1.00 37.78	Č
ATOM	122 C MET A 227	35.471 34.293 59.792 1.00 20.86	C
ATOM	123 O MET A 227	36.271 33.518 59.281 1.00 20.78	0
ATOM	124 N ILE A 228	34.561 34.928 59.069 1.00 20.14	N
ATOM	126 CA ILE A 228	34.417 34.632 57.652 1.00 19.44	C
ATOM	128 CB ILE A 228	33.183 35.310 57.083 1.00 19.42	č
ATOM		31.921 34.621 57.618 1.00 19.46	C
ATOM	133 CD1 ILE A 228	30.696 35.544 57.670 1.00 19.93	Č
ATOM	137 CG2 ILE A 228	33.225 35.310 55.549 1.00 19.80	Č
ATOM	141 C ILE A 228	35.663 35.106 56.928 1.00 19.44	c
ATOM	142 O ILE A 228	36.234 34.375 56.131 1.00 18.34	Ö
1110141	0 10011220	20.221 21.212 20.121 1.00 10.21	•

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ATOM	143 N GLN A 229	36.078 36.332 57.238 1.00 19.45	N
ATOM	145 CA GLN A 229	37.226 36.954 56.618 1.00 19.60	С
ATOM	147 CB GLN A 229		C
ATOM	150 CG GLN A 229	36.403 39.387 56.506 1.00 20.13	C
ATOM	153 CD GLN A 229	36.463 40.823 57.104 1.00 24.05	Č
ATOM	154 OE1 GLN A 229	35.688 41.697 56.683 1.00 25.94	ō
ATOM	155 NE2 GLN A 229	37.375 41.065 58.057 1.00 21.74	N
ATOM	158 C GLN A 229	38.489 36.159 56.869 1.00 20.06	C
ATOM	159 O GLN A 229	39.393 36.157 56.025 1.00 21.36	Õ
ATOM	160 N GLN A 230	38.562 35.521 58.037 1.00 20.08	N
ATOM	162 CA GLN A 230		C
ATOM	164 CB GLN A 230		Č
ATOM	167 CG GLN A 230	•	C
ATOM	170 CD GLN A 230		C
		41.826 35.548 60.575 1.00 27.54	O
ATOM	171 OE1 GLN A 230	42.934 33.742 61.355 1.00 24.11	N N
ATOM	172 NE2 GLN A 230		
ATOM	175 C GLN A 230	39.825 33.504 57.541 1.00 20.37	C
ATOM	176 O GLN A 230	40.901 33.189 57.052 1.00 21.03	O
ATOM	177 N LEU A 231	38.711 32.825 57.332 1.00 19.33	N
ATOM	179 CA LEU A 231	38.644 31.704 56.406 1.00 19.15	C
ATOM	181 CB LEU A 231		C
ATOM	184 CG LEU A 231		C
ATOM		35.259 30.038 57.502 1.00 19.61	C
ATOM	190 CD2 LEU A 231	37.532 29.608 58.408 1.00 17.58	C
ATOM	194 C LEU A 231	38.981 32.098 54.965 1.00 18.07	C
ATOM	195 O LEU A 231	39.733 31.404 54.303 1.00 19.06	0
ATOM	196 N VAL A 232	38.404 33.171 54.471 1.00 16.56	N
ATOM		38.659 33.594 53.111 1.00 16.52	C
ATOM	200 CB VAL A 232		C
ATOM	202 CG1 VAL A 232	38.277 35.487 51.440 1.00 14.87	C
ATOM	206 CG2 VAL A 232	36.362 34.416 52.610 1.00 15.09	C
ATOM	210 C VAL A 232	40.161 33.904 52.906 1.00 17.56	С
ATOM	211 O VAL A 232	40.760 33.501 51.895 1.00 17.08	О
ATOM	212 N ALA A 233	40.753 34.635 53.853 1.00 18.36	N
ATOM	214 CA ALA A 233	42.157 35.053 53.738 1.00 19.26	C
ATOM	216 CB ALA A 233	42.466 36.197 54.723 1.00 18.99	С
ATOM	220 C ALA A 233	43.106 33.877 53.958 1.00 20.32	C
ATOM	221 O ALA A 233	44.184 33.833 53.399 1.00 19.59	О
ATOM	222 N ALA A 234	42.683 32.913 54.764 1.00 22.20	N
ATOM	224 CA ALA A 234	43.476 31.728 55.028 1.00 23.33	C
ATOM	226 CB ALA A 234	42.855 30.940 56.122 1.00 23.33	C
ATOM	230 C ALA A 234	43.522 30.910 53.763 1.00 24.99	C
ATOM	231 O ALA A 234	44.540 30.367 53.402 1.00 24.97	0
ATOM	232 N GLN A 235	42.386 30.841 53.087 1.00 26.96	N
ATOM	234 CA GLN A 235	42.237 30.049 51.885 1.00 28.40	C
ATOM	236 CB GLN A 235	40.751 30.006 51.494 1.00 28.71	С
ATOM	239 CG GLN A 235	40.451 29.293 50.198 1.00 31.32	С
ATOM	242 CD GLN A 235	39.275 28.371 50.317 1.00 34.64	C

ATOM 243 OE1 GLN A 235 38.141 28.830 50.488 1.00 37.17 0 ATOM 244 NE2 GLN A 235 39.531 27.061 50.238 1.00 34.51 N ATOM 247 C GLN A 235 43.116 30.603 50.775 1.00 28.96 C ATOM 248 O GLN A 235 43.809 29.856 50.112 1.00 29.36 0 249 N LEU A 236 43.120 31.915 50.619 1.00 30.11 ATOM N 43.962 32.586 49.638 1.00 31.34 ATOM 251 CA LEU A 236 C 43.509 34.041 49.522 1.00 31.53 ATOM 253 CB LEU A 236 C 256 CG LEU A 236 44.041 34.966 48.423 1.00 33.04 ATOM C 258 CD1 LEU A 236 44.646 34.248 47.195 1.00 34.47 ATOM C 42.890 35.882 47.971 1.00 34.38 ATOM 262 CD2 LEU A 236 C ATOM 266 C LEU A 236 45.480 32.526 49.948 1.00 32.20 C 46.294 32.434 49.037 1.00 31.58 ATOM 267 O LEU A 236 0 45.868 32.576 51.218 1.00 33.32 268 N GLN A 237 ATOM N ATOM 270 CA GLN A 237 47.283 32.480 51.567 1.00 34.44 C 272 CB GLN A 237 47.552 33.065 52.967 1.00 34.50 ATOM C 49.027 33.026 53.460 1.00 35.10 ATOM 275 CG GLN A 237 C ATOM 278 CD GLN A 237 50.040 33.693 52.509 1.00 36.63 C 49.791 34.772 51.957 1.00 36.48 279 OE1 GLN A 237 ATOM 0 280 NE2 GLN A 237 51.192 33.048 52.335 1.00 36.81 ATOM N ATOM 283 C GLN A 237 47.786 31.035 51.423 1.00 35.77 C 48.955 30.838 51.129 1.00 35.62 ATOM 284 O GLN A 237 0 285 N CYS A 238 46.912 30.034 51.597 1.00 37.59 ATOM N 287 CA CYS A 238 47.301 28.615 51.438 1.00 39.46 ATOM C ATOM 289 CB CYS A 238 46.237 27.649 51.999 1.00 39.59 C ATOM 292 SG CYS A 238 46.181 27.601 53.804 1.00 40.56 S 47.516 28.289 49.973 1.00 40.75 ATOM 293 C CYS A 238 C 294 O CYS A 238 48.401 27.518 49.614 1.00 41.33 0 ATOM 46.682 28.890 49.141 1.00 42.10 ATOM 295 N ASN A 239 N 297 CA ASN A 239 46.776 28.758 47.709 1.00 43.09 C ATOM 299 CB ASN A 239 45.498 29.322 47.095 1.00 43.37 ATOM C ATOM 302 CG ASN A 239 45.427 29.097 45.608 1.00 45.64 C 45.300 27.948 45.146 1.00 48.37 ATOM 303 OD1 ASN A 239 0 ATOM 304 ND2 ASN A 239 45.513 30.188 44.836 1.00 45.47 N 307 C ASN A 239 48.016 29.479 47.151 1.00 43.48 ATOM C 48.809 28.885 46.422 1.00 43.67 ATOM 308 O ASN A 239 0 ATOM 309 N LYS A 240 48.177 30.748 47.520 1.00 43.94 N 49.254 31.612 47.027 1.00 44.29 311 CA LYS A 240 ATOM C ATOM 313 CB LYS A 240 49.130 33.007 47.666 1.00 44.30 C ATOM 316 CG LYS A 240 50.205 34.017 47.283 1.00 45.01 C C ATOM 319 CD LYS A 240 51.068 34.463 48.497 1.00 45.64 C 322 CE LYS A 240 52.528 34.788 48.123 1.00 45.21 ATOM 52.900 36.182 48.506 1.00 44.45 N ATOM 325 NZ LYS A 240 50.638 31.015 47.284 1.00 44.77 ATOM 329 C LYS A 240 C ATOM 330 O LYS A 240 51.494 31.006 46.389 1.00 44.94 0 331 N ARG A 241 50.853 30.484 48.484 1.00 45.29 ATOM N 333 CA ARG A 241 52.161 29.936 48.844 1.00 45.73 ATOM C 335 CB ARG A 241 52.324 29.860 50.375 1.00 45.60 ATOM C 338 CG ARG A 241 51.814 28.620 51.057 1.00 45.93 ATOM

ATOM 341 CD ARG A 241 51.894 28.707 52.573 1.00 45.89 C ATOM 344 NE ARG A 241 53.247 28.478 53.068 1.00 45.29 N ATOM 346 CZ ARG A 241 53.574 27.711 54.112 1.00 45.70 C ATOM 347 NH1 ARG A 241 52.652 27.064 54.823 1.00 45.14 N ATOM 350 NH2 ARG A 241 54.853 27.593 54.452 1.00 46.29 N **ATOM** 353 C ARG A 241 52.503 28.602 48.134 1.00 46.13 C 53.655 28.377 47.773 1.00 46.44 ATOM 354 O ARG A 241 0 ATOM 355 N SER A 242 51.511 27.748 47.899 1.00 46.59 Ν **ATOM** 357 CA SER A 242 51.743 26.466 47.212 1.00 46.88 C 359 CB SER A 242 50.646 25.472 47.596 1.00 46.75 ATOM C 362 OG SER A 242 50.717 25.193 48.986 1.00 47.56 ATOM 0 ATOM 364 C SER A 242 51.857 26.576 45.674 1.00 46.93 C 51.601 27.632 45.077 1.00 46.82 ATOM 365 O SER A 242 0 **ATOM** 366 N PRO A 247 54.724 22.837 43.959 1.00 33.07 N **ATOM** 367 CA PRO A 247 56.172 22.670 43.748 1.00 33.14 C ATOM 369 CB PRO A 247 56.700 22.242 45.132 1.00 33.12 C ATOM 372 CG PRO A 247 55.471 22.096 46.032 1.00 33.34 C ATOM 375 CD PRO A 247 54.382 22.917 45.388 1.00 33.19 C 56.500 21.607 42.698 1.00 32.82 ATOM 378 C PRO A 247 C 55.578 20.966 42.176 1.00 33.05 ATOM 379 O PRO A 247 O 380 N LYS A 248 57.796 21.464 42.405 1.00 32.25 ATOM N ATOM 382 CA LYS A 248 58.371 20.452 41.487 1.00 31.95 C ATOM 384 CB LYS A 248 59.853 20.133 41.830 1.00 32.14 \mathbf{C} 387 CG LYS A 248 60.544 20.953 42.964 1.00 33.20 C ATOM 390 CD LYS A 248 59.958 20.695 44.399 1.00 34.19 \mathbf{C} ATOM ATOM 393 CE LYS A 248 61.060 20.551 45.479 1.00 35.05 C 61.959 21.762 45.631 1.00 35.51 ATOM 396 NZ LYS A 248 N ATOM 400 C LYS A 248 57.594 19.135 41.431 1.00 31.29 C ATOM 401 O LYS A 248 57.233 18.584 42.470 1.00 31.80 0 ATOM 402 N VAL A 249 57.362 18.624 40.222 1.00 30.21 N ATOM 404 CA VAL A 249 56.507 17.444 40.034 1.00 29.34 C ATOM 406 CB VAL A 249 55.043 17.844 39.690 1.00 29.36 C ATOM 408 CG1 VAL A 249 54.175 17.827 40.936 1.00 28.98 C ATOM 412 CG2 VAL A 249 54.983 19.217 39.012 1.00 29.91 C ATOM 416 C VAL A 249 57.013 16.505 38.944 1.00 28.28 C 417 O VAL A 249 57.743 16.920 38.067 1.00 28.23 ATOM O **ATOM** 418 N THR A 250 56.601 15.242 39.000 1.00 27.22 N ATOM 420 CA THR A 250 56.939 14.280 37.960 1.00 26.62 C ATOM 422 CB THR A 250 56.376 12.874 38.282 1.00 26.66 C ATOM 424 OG1 THR A 250 56.952 12.373 39.496 1.00 26.45 0 ATOM 426 CG2 THR A 250 56.790 11.864 37.223 1.00 25.61 C ATOM 430 C THR A 250 56.327 14.775 36.656 1.00 26.23 C ATOM 431 O THR A 250 55.129 15.061 36.626 1.00 25.74 0 432 N PRO A 251 57.140 14.913 35.602 1.00 25.92 ATOM N 433 CA PRO A 251 56.645 15.329 34.276 1.00 25.62 ATOM C ATOM 435 CB PRO A 251 57.875 15.215 33.373 1.00 25.90 C **ATOM** 438 CG PRO A 251 59.057 15.249 34.281 1.00 26.42 C 441 CD PRO A 251 58,606 14,750 35.618 1.00 26.02 ATOM C

36

C 444 C PRO A 251 55.520 14.462 33.697 1.00 25.11 **ATOM** 445 O PRO A 251 55.559 13.224 33.769 1.00 25.06 0 **ATOM** 446 N TRP A 252 54.517 15.146 33.148 1.00 24.35 N ATOM 53.417 14.522 32.429 1.00 23.64 C 448 CA TRP A 252 ATOM 52.293 15.552 32.276 1.00 23.52 C 450 CB TRP A 252 **ATOM** 51.105 15.050 31.558 1.00 23.17 C 453 CG TRP A 252 ATOM C 50,777 15.287 30.258 1.00 22.55 454 CD1 TRP A 252 **ATOM** 49.596 14.657 29.951 1.00 23.51 456 NE1 TRP A 252 N **ATOM** 49.138 13.997 31.062 1.00 22.59 C 458 CE2 TRP A 252 ATOM C 50.069 14.223 32.093 1.00 22.56 459 CD2 TRP A 252 ATOM 49.826 13.655 33.348 1.00 22.89 C 460 CE3 TRP A 252 **ATOM** C ATOM 462 CZ3 TRP A 252 48.694 12.888 33.523 1.00 22.68 C 47.794 12.675 32.470 1.00 22.15 464 CH2 TRP A 252 ATOM 47.998 13.221 31.239 1.00 21.90 C 466 CZ2 TRP A 252 **ATOM** 53,938 14.085 31.054 1.00 22.99 C 468 C TRP A 252 **ATOM** 54.552 14.888 30.366 1.00 22.61 469 O TRP A 252 0 **ATOM** 53.712 12.832 30.655 1.00 22.60 N 470 N PRO A 253 **ATOM** 54.294 12.306 29.406 1.00 22.65 C **ATOM** 471 CA PRO A 253 C 54.162 10.786 29.569 1.00 22.52 473 CB PRO A 253 ATOM 52.959 10.615 30.439 1.00 22.86 C 476 CG PRO A 253 **ATOM** 52.896 11.821 31.350 1.00 22.50 C 479 CD PRO A 253 ATOM C 53.567 12.775 28.143 1.00 22.39 482 C PRO A 253 **ATOM** 52.382 12.466 28.027 1.00 22.25 483 O PRO A 253 0 **ATOM** 49.422 3.445 24.159 1.00 31.79 N **ATOM** 484 N ALA A 259 49.766 3.864 25.510 1.00 31.96 C 486 CA ALA A 259 ATOM 48.535 4.456 26.212 1.00 31.97 C 488 CB ALA A 259 ATOM 50.350 2.701 26.333 1.00 31.93 C 492 C ALA A 259 **ATOM** 49.638 1.749 26.675 1.00 32.13 0 **ATOM** 493 O ALA A 259 51.640 2.801 26.662 1.00 31.62 ATOM 494 N ALA A 260 N 52.345 1.774 27.434 1.00 31.36 C 496 CA ALA A 260 **ATOM** 498 CB ALA A 260 53.865 1.966 27.289 1.00 31.43 C **ATOM** 51.947 1.741 28.922 1.00 31.15 C **ATOM** 502 C ALA A 260 51.163 2.575 29.397 1.00 30.98 0 503 O ALA A 260 **ATOM** 52.501 0.761 29.644 1.00 30.82 N **ATOM** 504 N ALA A 261 52.275 0.590 31.086 1.00 30.41 C 506 CA ALA A 261 **ATOM** 52.496 -0.869 31.499 1.00 30.46 C 508 CB ALA A 261 ATOM 512 C ALA A 261 53.166 1.517 31.925 1.00 30.11 C ATOM 52.736 1.981 32.996 1.00 29.75 0 **ATOM** 513 O ALA A 261 54.399 1.760 31.451 1.00 29.31 514 N ASP A 262 N **ATOM** 55.285 2.780 32.038 1.00 28.85 **ATOM** 516 CA ASP A 262 C 518 CB ASP A 262 56.591 2.920 31.242 1.00 28.92 C ATOM 521 CG ASP A 262 57.601 1.814 31.539 1.00 29.74 C ATOM 57.785 1.456 32.726 1.00 30.32 **ATOM** 522 OD1 ASP A 262 0 58.271 1.260 30.633 1.00 29.19 523 OD2 ASP A 262 0 ATOM 524 C ASP A 262 54.600 4.156 32.073 1.00 28.24 C **ATOM** 54.760 4.915 33.035 1.00 27.58 **ATOM** 525 O ASP A 262 0 53.852 4.460 31.010 1.00 27.62 **ATOM** 526 N ALA A 263 N 528 CA ALA A 263 53.199 5.757 30.842 1.00 27.34 C **ATOM**

ATOM	530 CB ALA A 263	52.822 5.971 29.392 1.00 27.27	С
ATOM	534 C ALA A 263	51.969 5.921 31.736 1.00 27.01	С
ATOM	535 O ALA A 263	51.722 7.012 32.239 1.00 26.97	0
ATOM	536 N ARG A 264	51.199 4.846 31.910 1.00 26.59	N
ATOM	538 CA ARG A 264	50.094 4.819 32.875 1.00 26.11	С
ATOM	540 CB ARG A 264	49.450 3.409 32.930 1.00 26.56	С
ATOM	543 CG ARG A 264	47.907 3.344 33.034 1.00 27.65	С
ATOM	546 CD ARG A 264	47.294 1.976 32.598 1.00 30.14	С
ATOM	549 NE ARG A 264	46.214 2.120 31.602 1.00 32.09	N
ATOM	551 CZ ARG A 264	44.891 2.012 31.846 1.00 33.53	С
ATOM	552 NH1 ARG A 264	44.417 1.722 33.059 1.00 33.09	N
ATOM	555 NH2 ARG A 264	44.022 2.186 30.852 1.00 34.09	N
ATOM	558 C ARG A 264	50.657 5.241 34.246 1.00 25.26	C
ATOM	559 O ARG A 264	50.286 6.280 34.778 1.00 24.99	Ο
ATOM	560 N GLN A 265	51.589 4.443 34.771 1.00 24.21	N
ATOM	562 CA GLN A 265	52.258 4.693 36.051 1.00 23.40	C
ATOM	564 CB GLN A 265	53.373 3.650 36.289 1.00 23.57	C
ATOM	567 CG GLN A 265	52.852 2.204 36.554 1.00 24.88	С
ATOM	570 CD GLN A 265	53.863 1.057 36.251 1.00 27.58	С
ATOM	571 OE1 GLN A 265	53.596 -0.090 36.619 1.00 29.26	0
ATOM	572 NE2 GLN A 265	54.994 1.360 35.578 1.00 27.55	N
ATOM	575 C GLN A 265	52.833 6.108 36.124 1.00 22.07	С
ATOM	576 O GLN A 265	52.866 6.716 37.193 1.00 22.21	0
ATOM	577 N GLN A 266	53.265 6.633 34.986 1.00 20.33	N
ATOM	579 CA GLN A 266	53.733 8.008 34.896 1.00 19.32	C
ATOM	581 CB GLN A 266	54.221 8.312 33.489 1.00 19.42	C
ATOM	584 CG GLN A 266	55.094 9.506 33.429 1.00 20.37	C
ATOM	587 CD GLN A 266	56.485 9.151 33.837 1.00 21.46	C
ATOM	588 OE1 GLN A 266	56.737 8.905 35.019 1.00 23.58	0
ATOM	589 NE2 GLN A 266	57.388 9.085 32.875 1.00 19.41	N
ATOM	592 C GLN A 266	52.638 9.016 35.225 1.00 18.20	C
ATOM	593 O GLN A 266	52.788 9.827 36.122 1.00 17.55	0
ATOM	594 N ARG A 267	51.557 8.972 34.460 1.00 16.94	N
ATOM	596 CA ARG A 267	50.481 9.917 34.608 1.00 16.47	С
ATOM	598 CB ARG A 267	49.371 9.619 33.611 1.00 16.49	С
ATOM	601 CG ARG A 267	49.736 9.852 32.147 1.00 17.69	C
ATOM	604 CD ARG A 267	48.542 9.650 31.207 1.00 18.64	С
ATOM	607 NE ARG A 267	48.884 9.329 29.818 1.00 18.72	N
ATOM	609 CZ ARG A 267	49.280 8.128 29.373 1.00 18.73	С
ATOM	610 NH1 ARG A 267	49.447 7.094 30.196 1.00 18.38	N
ATOM	613 NH2 ARG A 267	49.519 7.964 28.084 1.00 18.47	N
ATOM	616 C ARG A 267	49.953 9.820 36.031 1.00 15.55	С
ATOM	617 O ARG A 267	49.721 10.824 36.677 1.00 15.03	Ο
ATOM	618 N PHE A 268	49.813 8.595 36.511 1.00 14.78	N
ATOM	620 CA PHE A 268	49.328 8.313 37.844 1.00 14.57	C
ATOM	622 CB PHE A 268	49.153 6.802 38.042 1.00 14.44	C
ATOM	625 CG PHE A 268	48.644 6.431 39.409 1.00 15.41	C
ATOM	626 CD1 PHE A 268	47.333 6.735 39.781 1.00 16.17	С

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ATOM	628 CE1 PHE A	A 268 46.870 6.418 41.029 1.00 15.66	С
ATOM	630 CZ PHE A	268 47.701 5.803 41.943 1.00 15.46	С
ATOM	632 CE2 PHE A	A 268 49.006 5.517 41.614 1.00 16.39	C
ATOM	634 CD2 PHE	A 268 49.481 5.827 40.342 1.00 15.83	С
ATOM	636 C PHE A	268 50.262 8.866 38.915 1.00 14.33	С
ATOM	637 O PHE A	268 49.802 9.415 39.901 1.00 14.80	0
ATOM	638 N ALA A	269 51.564 8.708 38.740 1.00 13.95	N
ATOM	640 CA ALA	A 269 52.519 9.278 39.671 1.00 13.81	C
ATOM	642 CB ALA	A 269 53.952 8.923 39.272 1.00 13.84	С
ATOM	646 C ALA A	269 52.337 10.784 39.692 1.00 13.92	С
ATOM	647 O ALA A	269 52.425 11.408 40.728 1.00 13.48	O
ATOM	648 N HIS A	270 52.065 11.353 38.531 1.00 14.53	N
ATOM		270 51.950 12.792 38.371 1.00 15.16	С
ATOM	652 CB HIS A		С
ATOM	655 CG HIS A		С
ATOM	656 ND1 HIS A	A 270 52.532 15.544 36.607 1.00 17.80	N
ATOM	658 CE1 HIS A	270 51.982 16.717 36.349 1.00 17.48	C
ATOM	660 NE2 HIS A	X 270 50.687 16.536 36.161 1.00 18.24	N
ATOM	662 CD2 HIS A	A 270 50.394 15.201 36.309 1.00 17.72	С
ATOM	664 C HIS A 2	270 50.767 13.335 39.190 1.00 15.34	С
ATOM	665 O HIS A	270 50.933 14.279 39.933 1.00 15.27	0
ATOM	666 N PHE A	271 49.607 12.691 39.094 1.00 15.80	N
ATOM	668 CA PHE	A 271 48.375 13.154 39.732 1.00 16.36	C
ATOM	670 CB PHE A	A 271 47.198 12.370 39.184 1.00 16.83	C
ATOM	673 CG PHE A	A 271 46.637 12.890 37.892 1.00 18.89	C
ATOM	674 CD1 PHE	A 271 46.672 14.235 37.568 1.00 20.1	
ATOM	676 CE1 PHE		
ATOM	678 CZ PHE A		
ATOM	680 CE2 PHE		
ATOM	682 CD2 PHE		7 C
ATOM	684 C PHE A		C
ATOM	685 O PHE A		0
ATOM	686 N THR A		N
ATOM	688 CA THR		
ATOM	690 CB THR		
ATOM	692 OG1 THR		
ATOM	694 CG2 THR		
ATOM	698 C THR A		С
ATOM	699 O THR A		0
ATOM	700 N GLU A		N
ATOM	702 CA GLU		
ATOM	704 CB GLU		
ATOM	707 CG GLU		
ATOM	710 CD GLU		
ATOM	711 OE1 GLU		
ATOM	712 OE2 GLU		
ATOM	713 C GLU A		C
ATOM	714 O GLU A	273 51.260 16.344 44.447 1.00 14.46	O

ATOM	715	N LEU A 274	50.218 15.862 42.535 1.00 14.42	N
ATOM		CA LEU A 274		С
ATOM		CB LEU A 274	48.498 17.207 41.345 1.00 14.63	C
ATOM		CG LEU A 274	49.284 17.516 40.068 1.00 14.28	C
ATOM		CD1 LEU A 274	48.414 17.415 38.840 1.00 15.31	C
ATOM		CD2 LEU A 274		Č
ATOM		C LEU A 274	48.409 16.917 43.851 1.00 14.54	C
ATOM	733			Õ
ATOM		N ALA A 275		N
ATOM		CA ALA A 275	47.077 15.424 45.260 1.00 13.49	C
ATOM		CB ALA A 275	46.490 13.991 45.142 1.00 13.71	Č
ATOM		C ALA A 275		c
ATOM		O ALA A 275	47.163 16.055 47.552 1.00 13.39	Ö
ATOM		N ILE A 276	49.043 15.296 46.680 1.00 12.15	N
ATOM			49.822 15.584 47.880 1.00 11.63	C
ATOM		CB ILE A 276		C
ATOM			51.135 13.464 48.083 1.00 12.30	C
			52.253 12.660 47.555 1.00 10.66	C
ATOM		CG2 ILE A 276	52.208 15.634 48.723 1.00 10.38	C
ATOM			49.937 17.077 48.118 1.00 11.95	c
ATOM		C ILE A 276	49.870 17.516 49.255 1.00 10.18	0
ATOM		O ILE A 276		N
ATOM		N ILE A 277	50.176 17.841 47.047 1.00 13.10	C
ATOM		CA ILE A 277		C
ATOM		CB ILE A 277	50.340 19.980 45.751 1.00 13.51	
ATOM		CG1 ILE A 277	51.642 19.656 45.007 1.00 14.87	C
ATOM			52.851 19.778 45.806 1.00 16.04	C
ATOM		00212211211	50.176 21.496 45.919 1.00 14.18	C
ATOM		C ILE A 277	48.933 19.780 47.767 1.00 13.48	C
ATOM	781	O ILE A 277	48.949 20.580 48.693 1.00 13.40	0
ATOM	782			N
ATOM			46.491 19.716 47.775 1.00 14.14	C
ATOM			45.351 19.118 46.931 1.00 14.44	C
ATOM		OG SER A 278		0
ATOM		C SER A 278	46.319 19.312 49.227 1.00 13.88	C
ATOM		O SER A 278	45.755 20.055 50.011 1.00 14.45	0
ATOM		N VAL A 279	46.808 18.136 49.594 1.00 13.99	N
ATOM		CA VAL A 279	46.679 17.690 50.964 1.00 14.81	C
ATOM		CB VAL A 279	47.216 16.249 51.143 1.00 14.88	C
ATOM		CG1 VAL A 279		С
ATOM		CG2 VAL A 279		С
ATOM		C VAL A 279	47.398 18.692 51.874 1.00 15.98	С
ATOM		O VAL A 279	46.882 19.094 52.900 1.00 16.77	0
ATOM		N GLN A 280	48.576 19.131 51.464 1.00 16.73	N
ATOM		CA GLN A 280	49.358 20.081 52.240 1.00 17.30	С
ATOM		CB GLN A 280	50.696 20.330 51.561 1.00 17.11	С
ATOM		CG GLN A 280	51.648 21.199 52.336 1.00 18.49	C
ATOM		CD GLN A 280	52.821 21.698 51.489 1.00 20.11	C
ATOM	820	OE1 GLN A 280	52.691 21.886 50.276 1.00 20.62	0

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ATOM	821 NE2 GLN A 280 5	3.968 21.885 52.126 1.00 17.93	N
ATOM		.607 21.393 52.425 1.00 17.42	С
ATOM		.573 21.919 53.509 1.00 17.16	O
ATOM		.999 21.901 51.369 1.00 17.96	N
ATOM	* = -	7.150 23.077 51.490 1.00 19.38	С
ATOM	• - •	6.479 23.404 50.170 1.00 19.70	Č
ATOM		7.420 23.843 49.093 1.00 22.42	Č
ATOM		6.660 24.233 47.856 1.00 27.65	Č
ATOM		6.934 23.643 46.792 1.00 30.06	0
ATOM		5.782 25.135 47.962 1.00 31.96	O
ATOM		.043 22.888 52.500 1.00 19.28	C
ATOM		.854 23.709 53.358 1.00 19.90	0
ATOM		307 21.796 52.390 1.00 19.77	N
ATOM		.146 21.576 53.245 1.00 19.42	С
ATOM	• • • • • • • • • • • • • • • • • • • 	.429 20.290 52.816 1.00 19.20	C
ATOM	· · · · · · · · · · · · · · · · · · ·	2.746 20.483 51.465 1.00 18.34	С
ATOM		2.449 19.148 50.700 1.00 17.40	С
ATOM		2.458 19.819 53.876 1.00 19.76	С
ATOM	*- · ·	553 21.502 54.711 1.00 20.02	C
ATOM		376 22.077 55.575 1.00 19.86	O
ATOM		.636 20.775 54.990 1.00 20.45	N
ATOM	862 CA VAL A 283 4	6.130 20.610 56.361 1.00 21.08	C
ATOM	864 CB VAL A 283 4	7.408 19.701 56.449 1.00 20.75	C
ATOM	866 CG1 VAL A 283	18 .047 19.807 57.813 1.00 19.55	С
ATOM	870 CG2 VAL A 283	17 .070 18.227 56.137 1.00 21.29	C
ATOM	874 C VAL A 283 46	.480 21.960 56.957 1.00 21.88	C
ATOM	875 O VAL A 283 46	.096 22.243 58.078 1.00 22.73	О
ATOM	876 N ASP A 284 47.	.250 22.754 56.206 1.00 21.96	N
ATOM	878 CA ASP A 284 47	7.655 24.103 56.577 1.00 22.32	C
ATOM	880 CB ASP A 284 48	3.577 24.698 55.479 1.00 22.91	C
ATOM		0.020 24.107 55.480 1.00 27.11	C
ATOM	884 OD1 ASP A 284 5	0.889 24.703 54.784 1.00 30.69	O
ATOM		0.395 23.067 56.106 1.00 31.70	O
ATOM		425 25.030 56.773 1.00 21.69	С
ATOM		.407 25.840 57.660 1.00 21.91	О
ATOM		.411 24.908 55.932 1.00 21.20	N
ATOM		4.184 25.687 56.068 1.00 21.41	С
ATOM		3.310 25.533 54.809 1.00 20.47	C
ATOM		1.915 26.101 54.959 1.00 20.10	C
ATOM		1.652 27.439 54.699 1.00 20.08	C
ATOM		0.362 27.961 54.842 1.00 18.61	C
ATOM		9.340 27.144 55.257 1.00 18.38	C
ATOM	-	9.597 25.818 55.542 1.00 20.39	C
ATOM		0.870 25.298 55.384 1.00 18.65	С
ATOM		.393 25.309 57.350 1.00 21.80	C
ATOM		.930 26.183 58.079 1.00 21.00	0
ATOM		.250 24.007 57.599 1.00 22.45	N
ATOM	910 CA ALA A 286 4	2.525 23.497 58.759 1.00 22.55	C

42.534 22.013 58.751 1.00 21.84 C 912 CB ALA A 286 ATOM 916 C ALA A 286 43.087 24.021 60.086 1.00 23.89 C ATOM ATOM 917 O ALA A 286 42.329 24.439 60.940 1.00 23.39 0 ATOM 918 N LYS A 287 44.410 24.029 60.262 1.00 25.94 N 45.015 24.533 61.513 1.00 27.03 920 CA LYS A 287 C ATOM ATOM 922 CB LYS A 287 46.507 24.197 61.565 1.00 28.33 C C ATOM 925 CG LYS A 287 46.819 22.686 61.828 1.00 32.10 C ATOM 928 CD LYS A 287 46.778 22.320 63.378 1.00 35.99 47.553 20.974 63.752 1.00 37.37 C ATOM 931 CE LYS A 287 ATOM 934 NZ LYS A 287 46.837 19.675 63.380 1.00 36.79 N ATOM 938 C LYS A 287 44.792 26.046 61.744 1.00 27.29 C ATOM 939 O LYS A 287 45.130 26.584 62.816 1.00 28.49 0 44.221 26.732 60.753 1.00 26.39 ATOM 940 N GLN A 288 N ATOM 942 CA GLN A 288 43.874 28.147 60.863 1.00 25.65 C 44.391 28.877 59.638 1.00 25.37 C 944 CB GLN A 288 ATOM ATOM 947 CG GLN A 288 45.840 28.657 59.473 1.00 28.98 C 950 CD GLN A 288 46.530 29.881 59.075 1.00 31.64 C ATOM 47.098 30.589 59.911 1.00 34.69 951 OE1 GLN A 288 ATOM 0 46.469 30.178 57.793 1.00 35.01 952 NE2 GLN A 288 N ATOM **ATOM** 955 C GLN A 288 42.373 28.388 60.978 1.00 24.59 C 41.934 29.528 61.136 1.00 23.94 956 O GLN A 288 0 ATOM 41.588 27.329 60.840 1.00 23.23 957 N VALA 289 N ATOM ATOM 959 CA VAL A 289 40.164 27.437 61.071 1.00 22.95 C 961 CB VAL A 289 39.438 26.211 60.571 1.00 22.40 C ATOM ATOM 963 CG1 VAL A 289 37.983 26.292 60.952 1.00 23.31 C 967 CG2 VAL A 289 39.612 26.072 59.068 1.00 20.88 C ATOM 39.978 27.592 62.575 1.00 22.64 C ATOM 971 C VAL A 289 ATOM 972 O VAL A 289 40.404 26.735 63.311 1.00 22.81 0 39.404 28.692 63.051 1.00 22.42 973 N PRO A 290 ATOM N ATOM 974 CA PRO A 290 39.137 28.825 64.494 1.00 22.62 C ATOM 976 CB PRO A 290 38.396 30.150 64.589 1.00 22.56 C 979 CG PRO A 290 38.922 30.917 63.436 1.00 23.19 C ATOM ATOM 982 CD PRO A 290 39.017 29.899 62.314 1.00 22.20 C 985 C PRO A 290 38.291 27.676 65.047 1.00 22.64 ATOM C ATOM 986 O PRO A 290 37.255 27.358 64.468 1.00 22.25 0 38.751 27.065 66.134 1.00 22.94 ATOM 987 N GLY A 291 N 38.121 25.879 66.683 1.00 23.65 ATOM 989 CA GLY A 291 C ATOM 992 C GLY A 291 38.995 24.637 66.533 1.00 24.02 C ATOM 993 O GLY A 291 39.035 23.783 67.423 1.00 24.52 0 994 N PHE A 292 39.719 24.534 65.426 1.00 23.97 ATOM N ATOM 996 CA PHE A 292 40.445 23.307 65.129 1.00 23.94 C ATOM 998 CB PHE A 292 41.023 23.375 63.728 1.00 23.45 C ATOM 1001 CG PHE A 292 41.578 22.085 63.250 1.00 21.82 C ATOM 1002 CD1 PHE A 292 40.732 21.064 62.828 1.00 19.41 C ATOM 1004 CE1 PHE A 292 41.234 19.874 62.391 1.00 19.10 C 42.605 19.667 62.357 1.00 20.35 ATOM 1006 CZ PHE A 292 C ATOM 1008 CE2 PHE A 292 43.461 20.666 62.779 1.00 21.11 C ATOM 1010 CD2 PHE A 292 42.941 21.880 63.218 1.00 20.01

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			41.526 22.950 66.161 1.00 24.87	C
ATOM		O PHE A 292		O
ATOM		N LEU A 293		N
-		CA LEU A 293	43.294 23.640 67.657 1.00 26.80	C
ATOM			44.482 24.610 67.522 1.00 27.55	С
ATOM	1021	CG LEU A 293		C
ATOM	1023	CD1 LEU A 293	46.377 25.443 66.010 1.00 30.34	C
ATOM	1027	CD2 LEU A 293	46.245 22.995 66.565 1.00 31.46	С
ATOM	1031	C LEU A 293	42.763 23.560 69.106 1.00 26.18	C
ATOM	1032	O LEU A 293	43.478 23.152 70.001 1.00 25.92	О
ATOM	1033	N GLN A 294	41.502 23.911 69.319 1.00 25.95	N
ATOM	1035	CA GLN A 294	40.815 23.613 70.588 1.00 25.70	C
ATOM	1037	CB GLN A 294	39.466 24.344 70.673 1.00 25.93	C
ATOM	1040	CG GLN A 294	39.558 25.872 70.801 1.00 26.59	С
ATOM	1043	CD GLN A 294	38.229 26.544 70.525 1.00 28.47	C
ATOM	1044	OE1 GLN A 294	38.162 27.566 69.818 1.00 30.90	O
ATOM		NE2 GLN A 294		N
ATOM		C GLN A 294	40.548 22.111 70.764 1.00 25.05	С
ATOM		O GLN A 294	40.272 21.681 71.865 1.00 24.73	0
ATOM		N LEU A 295		N
ATOM		CA LEU A 295		C
		CB LEU A 295		Č
ATOM		CG LEU A 295		Č
ATOM			38.202 19.233 66.544 1.00 23.39	C
		CD2 LEU A 295	37.457 19.227 68.942 1.00 25.45	Č
ATOM		C LEU A 295	41.684 19.149 70.077 1.00 22.31	c
ATOM		O LEU A 295		Ö
		N GLY A 296	41.540 17.980 70.708 1.00 21.41	N
			42.663 17.104 70.977 1.00 20.64	C
ATOM		CA GLY A 296		C
ATOM		C GLY A 296		0
ATOM			42.643 16.616 68.628 1.00 20.45	N
			44.564 16.256 69.767 1.00 20.79	
			45.304 15.833 68.585 1.00 21.83	C
ATOM		CB ARG A 297	46.768 15.477 68.923 1.00 22.29	C
ATOM		CG ARG A 297	47.742 15.855 67.793 1.00 26.10	C
		CD ARG A 297	49.251 15.569 68.055 1.00 31.77	C
ATOM		NE ARG A 297	49.943 15.212 66.805 1.00 35.40	N
ATOM		CZ ARG A 297	50.247 13.968 66.402 1.00 39.10	C
-		NH1 ARG A 297	49.964 12.893 67.148 1.00 39.38	N
		NH2 ARG A 297	50.856 13.796 65.228 1.00 40.91	N
ATOM		C ARG A 297	44.607 14.665 67.881 1.00 21.67	С
ATOM	1099		44.577 14.584 66.637 1.00 21.10	Ο
		N GLU A 298	44.025 13.763 68.663 1.00 21.69	N
		CA GLU A 298	43.399 12.583 68.064 1.00 21.70	С
ATOM		CB GLU A 298	43.006 11.551 69.120 1.00 22.29	C
		CG GLU A 298	43.859 10.300 69.066 1.00 26.31	С
ATOM		CD GLU A 298	45.289 10.530 69.545 1.00 31.15	С
ATOM	1111	OE1 GLU A 298	46.067 11.227 68.844 1.00 34.54	О

ATOM 1112 OE2 GLU A 298 45.642 10.001 70.624 1.00 33.78 . 0 ATOM 1113 C GLU A 298 42.212 12.959 67.179 1.00 20.17 C ATOM 1114 O GLU A 298 42.075 12.446 66.063 1.00 18.29 0 ATOM 1115 N ASP A 299 41.376 13.861 67.667 1.00 19.77 N ATOM 1117 CA ASP A 299 40.245 14.346 66.869 1.00 20.44 C ATOM 1119 CB ASP A 299 39.245 15.121 67.722 1.00 20.18 38.439 14.204 68.619 1.00 21.95 ATOM 1122 CG ASP A 299 \mathbf{C} ATOM 1123 OD1 ASP A 299 38.605 12.955 68.494 1.00 22.28 0 ATOM 1124 OD2 ASP A 299 37.647 14.629 69.493 1.00 24.19 0 40.675 15.174 65.677 1.00 20.59 ATOM 1125 C ASP A 299 C ATOM 1126 O ASP A 299 40.052 15.092 64.635 1.00 21.48 0 ATOM 1127 N GLN A 300 41.753 15.936 65.826 1.00 20.59 N ATOM 1129 CA GLN A 300 42.296 16.728 64.743 1.00 20.89 C ATOM 1131 CB GLN A 300 43.520 17.505 65.209 1.00 20.98 C ATOM 1134 CG GLN A 300 43.211 18.759 65.984 1.00 21.79 C ATOM 1137 CD GLN A 300 44.471 19.457 66.511 1.00 24.15 C ATOM 1138 OE1 GLN A 300 44.390 20.212 67.468 1.00 26.85 0 45.623 19.205 65.889 1.00 23.70 ATOM 1139 NE2 GLN A 300 N ATOM 1142 C GLN A 300 42.686 15.836 63.587 1.00 20.82 C ATOM 1143 O GLN A 300 42.343 16.119 62.439 1.00 21.20 0 ATOM 1144 N ILE A 301 43.395 14.753 63.910 1.00 20.32 N ATOM 1146 CA ILE A 301 43.769 13.762 62.935 1.00 19.62 C ATOM 1148 CB ILE A 301 44.767 12.748 63.539 1.00 20.10 C ATOM 1150 CG1 ILE A 301 46.154 13.393 63.642 1.00 19.43 C ATOM 1153 CD1 ILE A 301 47.094 12.652 64.553 1.00 20.19 C ATOM 1157 CG2 ILE A 301 44.861 11.468 62.662 1.00 19.73 C ATOM 1161 C ILE A 301 42.528 13.081 62.369 1.00 19.30 C ATOM 1162 O ILE A 301 42.393 12.934 61.155 1.00 20.20 0 ATOM 1163 N ALA A 302 41.592 12.699 63.213 1.00 18.41 N ATOM 1165 CA ALA A 302 40.423 11.988 62.705 1.00 17.85 C ATOM 1167 CB ALA A 302 39.596 11.477 63.848 1.00 17.81 C ATOM 1171 C ALA A 302 39.581 12.853 61.730 1.00 17.44 C ATOM 1172 O ALA A 302 39.141 12.349 60.689 1.00 16.93 0 ATOM 1173 N LEU A 303 39.388 14.139 62.037 1.00 17.37 N ATOM 1175 CA LEU A 303 38.604 15.043 61.173 1.00 17.82 C ATOM 1177 CB LEU A 303 38.300 16.363 61.873 1.00 17.79 C ATOM 1180 CG LEU A 303 37.480 16.301 63.158 1.00 18.21 ATOM 1182 CD1 LEU A 303 37.279 17.701 63.689 1.00 17.38 C ATOM 1186 CD2 LEU A 303 36.154 15.590 62.942 1.00 19.92 C ATOM 1190 C LEU A 303 39.301 15.371 59.849 1.00 18.27 C ATOM 1191 O LEU A 303 38.660 15.510 58.837 1.00 17.83 0 ATOM 1192 N LEU A 304 40.621 15.498 59.873 1.00 19.62 N ATOM 1194 CA LEU A 304 41.403 15.679 58.652 1.00 20.56 C ATOM 1196 CB LEU A 304 42.834 16.034 59.006 1.00 20.86 C ATOM 1199 CG LEU A 304 43.051 17.515 59.237 1.00 22.96 C ATOM 1201 CD1 LEU A 304 44.480 17.746 59.691 1.00 24.33 C 42.745 18.325 57.974 1.00 25.50 ATOM 1205 CD2 LEU A 304 C ATOM 1209 C LEU A 304 41.412 14.443 57.758 1.00 20.17 C

			41.271 14.540 56.560 1.00 20.16	О
		N LYS A 305		N
		CA LYS A 305	41.569 12.034 57.601 1.00 21.26	С
		CB LYS A 305	41.650 10.840 58.571 1.00 22.15	С
ATOM	1218	CG LYS A 305	42.794 9.817 58.317 1.00 23.68	C
ATOM	1221	CD LYS A 305	43.955 10.024 59.284 1.00 25.40	C
ATOM	1224	CE LYS A 305	45.192 9.197 58.921 1.00 25.14	C
ATOM	1227	NZ LYS A 305	45.648 8.320 60.048 1.00 25.27	N
ATOM	1231	C LYS A 305	40.274 11.964 56.779 1.00 21.35	C
ATOM	1232	O LYS A 305	40.280 11.754 55.545 1.00 21.00	O
ATOM	1233	N ALA A 306	39.156 12.190 57.456 1.00 20.89	N
ATOM	1235	CA ALA A 306	37.855 12.083 56.798 1.00 20.64	С
ATOM	1237	CB ALA A 306	36.760 11.955 57.841 1.00 20.73	C
ATOM	1241	C ALA A 306	37.569 13.242 55.838 1.00 20.23	С
ATOM	1242	O ALA A 306	36.977 13.038 54.794 1.00 20.34	O
ATOM	1243	N SER A 307	38.026 14.443 56.165 1.00 19.59	N
ATOM	1245	CA SER A 307	37.675 15.630 55.391 1.00 19.91	С
ATOM	1247	CB SER A 307	37.931 16.901 56.212 1.00 20.19	С
ATOM	1250	OG SER A 307	36.768 17.182 56.937 1.00 25.77	О
ATOM	1252	C SER A 307	38.480 15.773 54.130 1.00 19.11	C
ATOM	1253	O SER A 307	38.041 16.433 53.190 1.00 18.68	0
ATOM	1254	N THR A 308	39.696 15.237 54.138 1.00 17.89	N
ATOM	1256	CA THR A 308	40.646 15.594 53.122 1.00 17.45	С
ATOM	1258	CB THR A 308	41.983 14.910 53.345 1.00 17.47	C
ATOM	1260	OG1 THR A 308	42.680 15.539 54.440 1.00 15.82	C
ATOM	1262	CG2 THR A 308	42.886 15.176 52.174 1.00 17.07	C
ATOM	1266	C THR A 308	40.124 15.315 51.721 1.00 17.43	C
ATOM	1267	O THR A 308	40.159 16.190 50.878 1.00 17.33	0
ATOM	1268	N ILE A 309	39.625 14.120 51.472 1.00 17.46	N
ATOM	1270	CA ILE A 309	39.153 13.784 50.119 1.00 18.16	C
ATOM	1272	CB ILE A 309	38.797 12.265 49.988 1.00 18.17	C
			38.542 11.879 48.541 1.00 18.77	C
ATOM	1277	CD1 ILE A 309	39.783 11.691 47.752 1.00 21.05	С
ATOM	1281	CG2 ILE A 309	37.551 11.885 50.817 1.00 17.38	C
ATOM	1285		37.972 14.686 49.730 1.00 18.04	C
ATOM			37.879 15.150 48.598 1.00 17.64	O
		N GLU A 310		N
ATOM	1289	CA GLU A 310	35.921 15.803 50.440 1.00 19.49	C
		CB GLU A 310	34.990 15.776 51.659 1.00 19.25	C
		CG GLU A 310	34.449 14.367 51.869 1.00 21.65	C
			33.388 14.236 52.957 1.00 22.47	C
		OE1 GLU A 310		0
		OE2 GLU A 310		0
		C GLU A 310		C
ATOM	1301		35.742 17.808 49.125 1.00 20.59	0
		N ILE A 311		N
			37.696 19.178 50.504 1.00 17.23	C
ATOM	1306	CB ILE A 311	38.582 19.669 51.637 1.00 16.82	С

ATOM	1308 CG1 ILE A 311	37.772 19.715 52.952 1.00 16.30	С
ATOM	1311 CD1 ILE A 311	38.615 19.946 54.200 1.00 16.45	С
ATOM	1315 CG2 ILE A 311	39.139 21.050 51.306 1.00 17.62	С
ATOM	1319 C ILE A 311	38.413 19.219 49.139 1.00 16.48	С
ATOM	1320 O ILE A 311	38.248 20.152 48.370 1.00 16.19	O
ATOM	1321 N MET A 312	39.145 18.166 48.830 1.00 16.06	N
ATOM		39.837 18.042 47.574 1.00 16.26	С
ATOM		40.615 16.729 47.479 1.00 16.63	С
ATOM	1328 CG MET A 312	41.881 16.692 48.231 1.00 19.96	C
ATOM	1331 SD MET A 312	42.969 15.273 47.818 1.00 24.73	S
ATOM	1332 CE MET A 312	43.078 15.386 46.128 1.00 17.57	C
ATOM	1336 C MET A 312	38.854 18.049 46.453 1.00 15.49	С
ATOM	1337 O MET A 312	39.137 18.627 45.440 1.00 14.65	О
ATOM	1338 N LEU A 313	37.727 17.356 46.620 1.00 15.38	N
ATOM	1340 CA LEU A 313	36.708 17.309 45.585 1.00 15.44	С
ATOM	1342 CB LEU A 313	35.601 16.308 45.907 1.00 15.59	C
ATOM	1345 CG LEU A 313	36.025 14.853 45.774 1.00 15.79	C
ATOM	1347 CD1 LEU A 313	35.081 13.994 46.579 1.00 17.22	C
ATOM	1351 CD2 LEU A 313	36.041 14.422 44.322 1.00 15.14	C
ATOM	1355 C LEU A 313	36.111 18.680 45.424 1.00 15.72	C
ATOM	1356 O LEU A 313	35.863 19.124 44.298 1.00 16.03	Ο
ATOM	1357 N LEU A 314	35.880 19.357 46.538 1.00 15.98	N
ATOM	1359 CA LEU A 314	35.398 20.745 46.485 1.00 16.72	С
ATOM	1361 CB LEU A 314	35.214 21.285 47.902 1.00 16.68	C
ATOM	1364 CG LEU A 314	33.861 21.706 48.451 1.00 19.36	С
ATOM	1366 CD1 LEU A 314	32.691 21.290 47.581 1.00 19.73	C
ATOM	1370 CD2 LEU A 314	33.653 21.229 49.917 1.00 19.76	C
ATOM	1374 C LEU A 314	36.374 21.630 45.704 1.00 17.15	С
ATOM	1375 O LEU A 314	35.960 22.385 44.832 1.00 16.98	Ο
ATOM	1376 N GLU A 315	37.675 21.513 46.002 1.00 17.91	N
ATOM	1378 CA GLU A 315	38.718 22.322 45.340 1.00 18.50	C
ATOM	1380 CB GLU A 315	40.090 22.136 46.037 1.00 18.99	C
ATOM	1383 CG GLU A 315	40.261 22.870 47.368 1.00 22.30	С
ATOM	1386 CD GLU A 315	39.999 24.370 47.260 1.00 28.75	C
ATOM	1387 OE1 GLU A 315	40.882 25.092 46.747 1.00 33.76	O
ATOM	1388 OE2 GLU A 315	38.883 24.824 47.645 1.00 33.52	О
ATOM	1389 C GLU A 315	38.824 21.969 43.846 1.00 17.84	С
ATOM	1390 O GLU A 315	39.072 22.830 42.978 1.00 17.24	О
ATOM	1391 N THR A 316	38.600 20.701 43.546 1.00 16.95	N
ATOM	1393 CA THR A 316	38.612 20.246 42.182 1.00 16.70	C
ATOM	1395 CB THR A 316	38.583 18.732 42.152 1.00 16.75	C
ATOM	1397 OG1 THR A 316	39.785 18.226 42.744 1.00 13.92	O
ATOM	1399 CG2 THR A 316	38.547 18.187 40.683 1.00 14.98	C
ATOM	1403 C THR A 316	37.418 20.824 41.428 1.00 18.11	C
ATOM	1404 O THR A 316	37.558 21.228 40.289 1.00 18.69	0
ATOM	1405 N ALA A 317	36.248 20.882 42.059 1.00 19.67	N
ATOM	1407 CA ALA A 317	35.057 21.445 41.406 1.00 20.76	С
ATOM	1409 CB ALA A 317	33.859 21.314 42.294 1.00 20.68	C

ATOM 1413 C ALA A 317 35.284 22.908 41.038 1.00 21.54 C ATOM 1414 O ALA A 317 34.913 23.349 39.943 1.00 22.69 O ATOM 1415 N ARG A 318 35.934 23.623 41.947 1.00 22.02 N ATOM 1417 CA ARG A 318 36.313 25.033 41.796 1.00 22.80 C ATOM 1419 CB ARG A 318 37.094 25.465 43.038 1.00 23.87 C ATOM 1422 CG ARG A 318 36.573 26.602 43.856 1.00 27.49 C ATOM 1425 CD ARG A 318 37.322 26.668 45.163 1.00 33.60 37.035 27.843 45.987 1.00 39.43 ATOM 1428 NE ARG A 318 N ATOM 1430 CZ ARG A 318 37.516 29.056 45.772 1.00 42.41 C 38.325 29.293 44.736 1.00 44.52 ATOM 1431 NH1 ARG A 318 N ATOM 1434 NH2 ARG A 318 37.180 30.043 46.599 1.00 43.04 N 37.230 25.307 40.615 1.00 21.79 ATOM 1437 C ARG A 318 C 37.245 26.411 40.086 1.00 21.76 ATOM 1438 O ARG A 318 0 ATOM 1439 N ARG A 319 38.044 24.317 40.259 1.00 20.98 N 39.023 24.421 39.171 1.00 20.20 ATOM 1441 CA ARG A 319 C ATOM 1443 CB ARG A 319 40.313 23.710 39.568 1.00 20.14 C ATOM 1446 CG ARG A 319 41.082 24.401 40.647 1.00 20.81 C 42.014 23.486 41.412 1.00 23.29 C ATOM 1449 CD ARG A 319 ATOM 1452 NE ARG A 319 42.885 24.247 42.294 1.00 24.81 N ATOM 1454 CZ ARG A 319 42.504 24.799 43.426 1.00 26.82 C ATOM 1455 NH1 ARG A 319 41.265 24.659 43.852 1.00 28.73 N ATOM 1458 NH2 ARG A 319 43.371 25.490 44.155 1.00 29.94 N 38.538 23.826 37.850 1.00 19.77 ATOM 1461 C ARG A 319 C 39.312 23.733 36.881 1.00 18.83 ATOM 1462 O ARG A 319 0 ATOM 1463 N TYR A 320 37.283 23.387 37.835 1.00 19.44 N ATOM 1465 CA TYR A 320 36.613 22.945 36.616 1.00 19.71 C ATOM 1467 CB TYR A 320 35.365 22.116 36.956 1.00 19.39 C ATOM 1470 CG TYR A 320 34.596 21.588 35.769 1.00 18.73 C ATOM 1471 CD1 TYR A 320 35.123 20.608 34.962 1.00 19.98 C 34.416 20.112 33.868 1.00 20.60 ATOM 1473 CE1 TYR A 320 \mathbf{C} ATOM 1475 CZ TYR A 320 33.167 20.603 33.575 1.00 20.46 ATOM 1476 OH TYR A 320 32.486 20.107 32.487 1.00 20.85 0 ATOM 1478 CE2 TYR A 320 32.611 21.578 34.370 1.00 19.65 C ATOM 1480 CD2 TYR A 320 33.328 22.063 35.463 1.00 19.36 C ATOM 1482 C TYR A 320 36.239 24.163 35.769 1.00 20.30 C ATOM 1483 O TYR A 320 35.657 25.127 36.254 1.00 19.92 0 ATOM 1484 N ASN A 321 36.613 24.115 34.501 1.00 21.61 N ATOM 1486 CA ASN A 321 36.217 25.110 33.536 1.00 22.66 C ATOM 1488 CB ASN A 321 37.409 25.484 32.663 1.00 23.12 C ATOM 1491 CG ASN A 321 37.143 26.698 31.800 1.00 22.84 37.647 27.782 32.069 1.00 24.62 ATOM 1492 OD1 ASN A 321 0 ATOM 1493 ND2 ASN A 321 36.348 26.524 30.771 1.00 20.92 N 35.096 24.525 32.697 1.00 23.60 ATOM 1496 C ASN A 321 C ATOM 1497 O ASN A 321 35.313 23.608 31.918 1.00 23.48 0 ATOM 1498 N HIS A 322 33.895 25.053 32.892 1.00 25.23 N ATOM 1500 CA HIS A 322 32.693 24.646 32.156 1.00 26.51 C ATOM 1502 CB HIS A 322 31.492 25.513 32.633 1.00 27.27 C ATOM 1505 CG HIS A 322 30.275 25.424 31.762 1.00 29.99 C

ATOM	1506 ND1 HIS A 322	29.601 24.240 31.535 1.00 32.54	N
ATOM	1508 CEI HIS A 322		C
ATOM	1510 NE2 HIS A 322		N
	1512 CD2 HIS A 322	29.611 26.376 31.058 1.00 33.10	С
ATOM	1514 C HIS A 322	32.891 24.711 30.633 1.00 26.52	С
	1515 O HIS A 322		0
	1516 N GLU A 323		N
ATOM	1518 CA GLU A 323	33.748 25.980 28.712 1.00 26.91	C
ATOM	1520 CB GLU A 323		Ċ
ATOM	1523 CG GLU A 323		Ċ
_	1526 CD GLU A 323		Ċ
ATOM	1527 OE1 GLU A 323		O
		31.461 29.899 27.740 1.00 30.74	O
	1529 C GLU A 323		C
ATOM	1530 O GLU A 323		0
ATOM	1531 N THR A 324		Ň
ATOM	1533 CA THR A 324		C
ATOM			C
ATOM	1537 OG1 THR A 324		O
ATOM		38.416 25.538 28.015 1.00 26.34	Č
	1543 C THR A 324		C
	1544 O THR A 324		O
ATOM	1545 N GLU A 325		N
ATOM	1547 CA GLU A 325		С
ATOM			С
	1552 CG GLU A 325	33.233 19.344 29.587 1.00 28.20	С
ATOM		32.398 18.812 28.408 1.00 29.54	С
		32.727 19.079 27.222 1.00 29.64	O
ATOM	1557 OE2 GLU A 325	31.383 18.126 28.668 1.00 29.96	O
ATOM	1558 C GLU A 325	36.669 20.077 30.829 1.00 27.23	С
ATOM	1559 O GLU A 325		О
ATOM	1560 N CYS A 326	37.563 20.971 31.256 1.00 26.85	N
ATOM	1562 CA CYS A 326	38.877 20.606 31.795 1.00 26.31	С
	1564 CB CYS A 326		С
ATOM	1567 SG CYS A 326	40.201 20.150 29.337 1.00 27.85	S
	1568 C CYS A 326	39.095 21.213 33.180 1.00 25.45	С
ATOM	1569 O CYS A 326	38.497 22.234 33.523 1.00 25.10	O
ATOM	1570 N ILE A 327	39.979 20.577 33.947 1.00 24.73	N
ATOM	1572 CA ILE A 327	40.265 20.934 35.332 1.00 24.35	C
ATOM	1574 CB ILE A 327	40.046 19.699 36.227 1.00 24.35	C
ATOM	1576 CG1 ILE A 327	38.560 19.368 36.321 1.00 24.03	С
ATOM	1579 CD1 ILE A 327	38.310 18.010 36.913 1.00 25.32	С
ATOM	1583 CG2 ILE A 327	40.634 19.908 37.604 1.00 23.73	C
ATOM	1587 C ILE A 327	41.711 21.398 35.429 1.00 24.23	С
ATOM	1588 O ILE A 327	42.596 20.722 34.925 1.00 23.97	0
ATOM	1589 N THR A 328	41.945 22.521 36.108 1.00 24.35	N
	1591 CA THR A 328	43.262 23.135 36.176 1.00 24.56	С
ATOM	1593 CB THR A 328	43.221 24.573 35.612 1.00 24.72	C

1595	OG1 THR A 328	42.759 24.549 34.254 1.00 24.62	0
1597	CG2 THR A 328	44.638 25.177 35.492 1.00 24.73	C
1601	C THR A 328	43.827 23.146 37.601 1.00 25.13	С
1602	O THR A 328	43.288 23.805 38.511 1.00 24.81	О
1603	N PHE A 329	44.932 22.421 37.773 1.00 25.28	N
1605	CA PHE A 329	45.690 22.429 39.013 1.00 25.63	С
1607	CB PHE A 329	46.168 21.003 39.303 1.00 25.28	С
		45.058 19.981 39.249 1.00 23.41	С
		45.075 18.960 38.309 1.00 21.30	С
		44.050 18.042 38.242 1.00 20.33	С
1615	CZ PHE A 329	42.978 18.125 39.127 1.00 20.10	С
1617	CE2 PHE A 329	42.943 19.139 40.075 1.00 21.64	С
		43.976 20.068 40.128 1.00 21.59	С
1621	C PHE A 329	46.859 23.413 38.923 1.00 27.08	С
1622	O PHE A 329	47.514 23.529 37.879 1.00 27.03	O
1623	N LEU A 330	47.086 24.162 39.999 1.00 28.88	N
1625	CA LEU A 330	48.317 24.959 40.168 1.00 30.33	С
1627	CB LEU A 330	49.543 24.024 40.284 1.00 30.46	C
1630	CG LEU A 330	49.540 22.997 41.419 1.00 30.49	С
1632	CD1 LEU A 330	50.613 21.962 41.199 1.00 31.98	C
1636	CD2 LEU A 330	49.751 23.668 42.752 1.00 30.65	C
1640	C LEU A 330	48.575 25.998 39.062 1.00 31.29	C
1641	O LEU A 330	49.695 26.113 38.556 1.00 31.45	Ο
1642	N LYS A 331	47.547 26.748 38.682 1.00 32.74	N
1644	CA LYS A 331	47.668 27.785 37.632 1.00 33.73	C
1646	CB LYS A 331	48.877 28.735 37.855 1.00 34.21	C
1649	CG LYS A 331	49.110 29.269 39.284 1.00 35.79	C
1652	CD LYS A 331	49.871 30.635 39.289 1.00 37.37	С
			C
		49.126 33.069 39.324 1.00 38.94	N
			C
			Ο
			N
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			O
			O
			С
			О
			N
			С
			C
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			C
			C
1690	CE2 PHE A 333	52.735 20.521 35.261 1.00 34.47	С
	1597 1601 1602 1603 1605 1607 1610 1611 1613 1615 1617 1619 1621 1622 1623 1625 1632 1636 1640 1641 1642 1644 1646 1649 1652 1658 1662 1663 1664 1671 1672 1673 1675 1676 1678 1678 1680 1683 1688	1597 CG2 THR A 328 1601 C THR A 328 1602 O THR A 328 1603 N PHE A 329 1605 CA PHE A 329 1607 CB PHE A 329 1610 CG PHE A 329 1611 CD1 PHE A 329 1613 CE1 PHE A 329 1615 CZ PHE A 329 1617 CE2 PHE A 329 1617 CE2 PHE A 329 1619 CD2 PHE A 329 1621 C PHE A 329 1621 C PHE A 329 1622 O PHE A 329 1623 N LEU A 330 1625 CA LEU A 330 1627 CB LEU A 330 1630 CG LEU A 330 1636 CD2 LEU A 330 1636 CD2 LEU A 330	1601 C THR A 328 1602 O THR A 328 1603 N PHE A 329 1605 CA PHE A 329 1607 CB PHE A 329 1610 CG PHE A 329 1611 CD1 PHE A 329 1613 CE1 PHE A 329 1615 CZ PHE A 329 1616 CZ PHE A 329 1616 CD2 PHE A 329 1617 CE2 PHE A 329 1619 CD2 PHE A 329 1621 C PHE A 329 1622 O PHE A 329 1623 N LEU A 330 1625 CA LEU A 330 1626 CB LEU A 330 1630 CG LEU A 330 1630 CG LEU A 330 1630 CG LEU A 330 1640 C LEU A 330 1641 O LEU A 330 1644 CA LYS A 331 1645 CB LYS A 331 1646 CB LYS A 331 1646 CB LYS A 331 1647 CG LYS A 331 1658 NZ LYS A 331 1659 CG LYS A 331 1666 CA ASP A 332 1667 O ASP A 332 1671 CG ASP A 332 1672 OD1 ASP A 332 1673 OD2 ASP A 332 1674 C A SP A 332 1675 O ASP A 332 1676 CA PHE A 333 1686 CB PHE A 333 1686 CB PHE A 333 1686 CB PHE A 333 1686 CEI PHE A 333 1686 CEI PHE A 333 1686 CEI PHE A 333 1686 CZ PHE A 333 1686 CEI PHE A 333 1686 CZ PHE A 333 1686 CZ PHE A 333 1686 CZ PHE A 333 1686 CEI PHE A 333 1688 CZ PHE A 333 1686 CEI PHE A 333 1688 CZ PHE A 333

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ATOM	1692 CD2 PHE A 333	51.358 20.440 35.121 1.00 34.19	C
ATOM	1694 C PHE A 333	47.022 21.665 34.501 1.00 31.92	C
ATOM	1695 O PHE A 333	46.222 21.708 35.410 1.00 31.94	0
ATOM	1696 N THR A 334	46.688 21.383 33.245 1.00 31.20	N
ATOM	1698 CA THR A 334	45.300 21.254 32.796 1.00 30.75	С
ATOM	1700 CB THR A 334	45.014 22.318 31.727 1.00 30.62	С
ATOM	1702 OG1 THR A 334	45.207 23.613 32.303 1.00 30.79	0
ATOM	1704 CG2 THR A 334	43.545 22.322 31.316 1.00 30.43	С
ATOM	1708 C THR A 334	45.023 19.864 32.242 1.00 30.23	С
ATOM	1709 O THR A 334	45.861 19.304 31.551 1.00 30.23	O
ATOM	1710 N TYR A 335	43.842 19.320 32.544 1.00 29.92	N
ATOM	1712 CA TYR A 335	43.501 17.931 32.205 1.00 29.62	С
ATOM	1714 CB TYR A 335	43.867 16.986 33.366 1.00 29.47	С
ATOM	1717 CG TYR A 335	45.325 17.092 33.729 1.00 29.58	С
ATOM	1718 CD1 TYR A 335	45.737 17.850 34.823 1.00 29.29	С
ATOM	1720 CE1 TYR A 335	47.079 17.973 35.134 1.00 29.82	С
ATOM	1722 CZ TYR A 335		С
ATOM	1723 OH TYR A 335	49.358 17.476 34.607 1.00 31.94	0
ATOM	1725 CE2 TYR A 335		С
ATOM	1727 CD2 TYR A 335		С
ATOM	1729 C TYR A 335	42.030 17.762 31.864 1.00 29.38	С
ATOM	1730 O TYR A 335	41.177 18.458 32.405 1.00 29.15	0
ATOM	1731 N SER A 336	41.745 16.813 30.976 1.00 29.15	N
ATOM	1733 CA SER A 336	40.384 16.524 30.541 1.00 28.85	С
ATOM	1735 CB SER A 336	40.307 16.527 29.021 1.00 28.49	С
ATOM	1738 OG SER A 336	41.107 15.491 28.485 1.00 27.98	0
ATOM	1740 C SER A 336	39.981 15.163 31.063 1.00 28.83	С
ATOM	1741 O SER A 336	40.824 14.420 31.552 1.00 28.78	0
ATOM	1742 N LYS A 337	38.695 14.839 30.934 1.00 28.88	N
ATOM	1744 CA LYS A 337	38.168 13.519 31.298 1.00 28.86	С
ATOM	1746 CB LYS A 337	36.742 13.336 30.764 1.00 28.93	С
ATOM	1749 CG LYS A 337	35.739 12.823 31.796 1.00 30.85	С
ATOM	1752 CD LYS A 337	34.407 12.361 31.151 1.00 32.64	С
ATOM	1755 CE LYS A 337	33.456 13.529 30.806 1.00 33.98	С
ATOM	1758 NZ LYS A 337	32.125 13.458 31.537 1.00 35.47	N
ATOM	1762 C LYS A 337	39.053 12.385 30.776 1.00 28.68	С
ATOM	1763 O LYS A 337	39.286 11.404 31.492 1.00 28.62	0
ATOM	1764 N ASP A 338	39.537 12.524 29.536 1.00 28.16	N
ATOM	1766 CA ASP A 338	40.370 11.496 28.921 1.00 27.94	С
ATOM	1768 CB ASP A 338	40.661 11.800 27.435 1.00 28.12	С
ATOM	1771 CG ASP A 338	39.498 11.428 26.502 1.00 28.23	С
ATOM	1772 OD1 ASP A 338	38.407 11.062 26.993 1.00 28.81	0
	1773 OD2 ASP A 338		O
ATOM	1774 C ASP A 338	41.679 11.352 29.690 1.00 27.53	С
	1775 O ASP A 338	42.093 10.237 30.009 1.00 27.27	0
	1776 N ASP A 339	42.324 12.478 29.990 1.00 26.98	N
	1778 CA ASP A 339	43.580 12.449 30.743 1.00 26.51	С
ATOM	1780 CB ASP A 339	44.098 13.864 31.040 1.00 26.35	С

ATOM	1783	CG ASP A 339	44.531 14.617 29.784 1.00 26.67	С
			45.108 14.010 28.844 1.00 27.93	0
ATOM			44.339 15.837 29.650 1.00 26.18	Ö
ATOM		C ASP A 339		C
ATOM		O ASP A 339		0
ATOM		N PHE A 340		N
ATOM			42.149 10.965 33.964 1.00 25.32	С
			40.967 11.492 34.795 1.00 24.90	С
			41.175 12.888 35.305 1.00 22.96	С
ATOM	1796	CD1 PHE A 340	40.553 13.966 34.697 1.00 22.02	С
ATOM	1798	CE1 PHE A 340	40.758 15.257 35.153 1.00 22.03	С
ATOM	1800	CZ PHE A 340	41.598 15.487 36.229 1.00 20.58	С
ATOM	1802	CE2 PHE A 340	42.226 14.421 36.839 1.00 20.74	C
ATOM	1804	CD2 PHE A 340	42.016 13.128 36.371 1.00 21.10	С
ATOM	1806	C PHE A 340	42.022 9.466 33.682 1.00 25.66	C
ATOM	1807	O PHE A 340	42.466 8.650 34.483 1.00 25.91	O
ATOM	1808	N HIS A 341	41.435 9.106 32.550 1.00 26.18	N
ATOM	1810	CA HIS A 341	41.343 7.700 32.148 1.00 26.87	С
ATOM	1812	CB HIS A 341	40.295 7.513 31.045 1.00 27.05	С
ATOM	1815	CG HIS A 341	39.884 6.085 30.849 1.00 28.71	С
ATOM	1816	ND1 HIS A 341	39.126 5.394 31.771 1.00 29.94	N
ATOM			38.922 4.162 31.335 1.00 31.00	C
ATOM	1820	NE2 HIS A 341	39.523 4.027 30.165 1.00 30.91	N
ATOM	1822	CD2 HIS A 341	40.134 5.215 29.838 1.00 30.45	С
ATOM	1824	C HIS A 341	42.684 7.113 31.685 1.00 26.76	C
ATOM			42.984 5.947 31.954 1.00 26.77	O
ATOM			43.486 7.925 31.003 1.00 26.70	N
ATOM			44.794 7.493 30.513 1.00 26.94	C
ATOM			45.382 8.543 29.558 1.00 26.90	С
			44.664 8.622 28.210 1.00 28.19	C
			45.229 9.672 27.226 1.00 29.91	С
			44.476 10.935 27.264 1.00 31.33	N
			44.632 11.955 26.412 1.00 31.59	
			45.525 11.902 25.427 1.00 31.20	N
		NH2 ARG A 342		N
		C ARG A 342	45.778 7.202 31.656 1.00 26.76	C
		O ARG A 342	46.798 6.566 31.423 1.00 26.70	0
		N ALA A 343	45.470 7.675 32.872 1.00 26.62	N
		CA ALA A 343	46.280 7.431 34.079 1.00 26.39	C
		CB ALA A 343	46.349 8.695 34.939 1.00 26.48	C
		C ALA A 343	45.776 6.249 34.924 1.00 26.40	C
		O ALA A 343	46.353 5.932 35.966 1.00 26.25	O
ATOM		N GLY A 344	44.691 5.620 34.481 1.00 26.50	N
ATOM		CA GLY A 344	44.267 4.332 35.001 1.00 26.55	C
ATOM		C GLY A 344	43.280 4.423 36.136 1.00 26.67	C
	1866			O
ATOM		N LEU A 345		N
A 1 1 1 1 A /	1XAY	CA LEU A 345	41.463 5.667 37.153 1.00 26.53	С

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41.267 7.149 37.516 1.00 26.53 C ATOM 1871 CB LEU A 345 42.518 7.858 38.072 1.00 24.62 ATOM 1874 CG LEU A 345 C 42.305 9.352 38.144 1.00 24.46 C ATOM 1876 CD1 LEU A 345 C ATOM 1880 CD2 LEU A 345 42.897 7.335 39.436 1.00 23.50 40.181 5.026 36.586 1.00 26.63 ATOM 1884 C LEU A 345 C 39.898 5.147 35.395 1.00 26.63 0 ATOM 1885 O LEU A 345 39.454 4.294 37.434 1.00 26.91 N ATOM 1886 N GLN A 346 38.105 3.792 37.127 1.00 26.83 C ATOM 1888 CA GLN A 346 37.339 3.473 38.426 1.00 27.27 C ATOM 1890 CB GLN A 346 C 37.770 2.240 39.251 1.00 28.32 ATOM 1893 CG GLN A 346 C 36.835 1.986 40.479 1.00 29.29 ATOM 1896 CD GLN A 346 36.459 0.842 40.753 1.00 31.84 0 ATOM 1897 OE1 GLN A 346 36.460 3.046 41.182 1.00 27.17 N ATOM 1898 NE2 GLN A 346 ATOM 1901 C GLN A 346 37.288 4.867 36.416 1.00 26.31 C 37.438 6.055 36.704 1.00 26.77 0 ATOM 1902 O GLN A 346 36.389 4.454 35.536 1.00 25.81 N ATOM 1903 N VAL A 347 35.368 5.358 34.976 1.00 25.38 C ATOM 1905 CA VAL A 347 34.753 4.766 33.669 1.00 25.51 C ATOM 1907 CB VAL A 347 33.790 5.742 32.998 1.00 25.31 C ATOM 1909 CG1 VAL A 347 35.874 4.396 32.704 1.00 25.57 C ATOM 1913 CG2 VAL A 347 34.304 5.642 36.057 1.00 24.93 C ATOM 1917 C VAL A 347 ATOM 1918 O VAL A 347 33.792 6.757 36.161 1.00 23.88 0 ATOM 1919 N GLU A 348 34.045 4.636 36.898 1.00 24.60 N 33.146 4.756 38.063 1.00 24.72 C ATOM 1921 CA GLU A 348 ATOM 1923 CB GLU A 348 33.019 3.390 38.770 1.00 24.91 C 32.539 2.243 37.885 1.00 26.71 C ATOM 1926 CG GLU A 348 ATOM 1929 CD GLU A 348 33.685 1.488 37.206 1.00 29.71 C 33.582 1.233 35.991 1.00 31.00 ATOM 1930 OE1 GLU A 348 0 ATOM 1931 OE2 GLU A 348 34.701 1.160 37.869 1.00 31.93 0 33.583 5.808 39.107 1.00 23.86 C ATOM 1932 C GLU A 348 ATOM 1933 O GLU A 348 32.829 6.137 40.029 1.00 23.87 0 ATOM 1934 N PHE A 349 34.816 6.285 38.974 1.00 23.14 N ATOM 1936 CA PHE A 349 35.403 7.307 39.840 1.00 22.80 C ATOM 1938 CB PHE A 349 36.854 6.903 40.134 1.00 23.01 C C ATOM 1941 CG PHE A 349 37.583 7.793 41.085 1.00 22.39 37.088 8.050 42.350 1.00 22.17 ATOM 1942 CD1 PHE A 349 C 37.780 8.853 43.218 1.00 20.60 C ATOM 1944 CE1 PHE A 349 39.013 9.375 42.856 1.00 21.91 C ATOM 1946 CZ PHE A 349 ATOM 1948 CE2 PHE A 349 39.533 9.127 41.614 1.00 22.28 C 38.818 8.336 40.726 1.00 23.79 ATOM 1950 CD2 PHE A 349 C ATOM 1952 C PHE A 349 35.371 8.639 39.116 1.00 22.30 C ATOM 1953 O PHE A 349 34.953 9.628 39.669 1.00 21.90 0 ATOM 1954 N ILE A 350 35.796 8.635 37.857 1.00 22.24 N ATOM 1956 CA ILE A 350 35.895 9.848 37.060 1.00 22.04 C ATOM 1958 CB ILE A 350 36.575 9.537 35.722 1.00 21.70 C ATOM 1960 CG1 ILE A 350 38.079 9.313 35.922 1.00 22.13 C ATOM 1963 CD1 ILE A 350 38.756 8.515 34.775 1.00 21.47 C ATOM 1967 CG2 ILE A 350 36.332 10.663 34.718 1.00 21.28 C

ATOM	1971	C ILE A 350	34.558 10.515 36.782 1.00 22.33	C
ATOM			34.434 11.731 36.887 1.00 22.59	O
ATOM		N ASN A 351		N
ATOM		CA ASN A 351		С
ATOM		CB ASN A 351		C
ATOM		CG ASN A 351		Č
ATOM				0
ATOM			31.424 7.836 33.232 1.00 23.29	N
ATOM		C ASN A 351		С
ATOM		O ASN A 351		O
ATOM			31.464 10.388 38.228 1.00 21.48	N
ATOM	1988	CA PRO A 352	30.887 11.074 39.397 1.00 20.83	C
ATOM	1990	CB PRO A 352	30.914 10.006 40.491 1.00 20.76	С
ATOM	1993	CG PRO A 352	30.930 8.732 39.765 1.00 21.63	С
ATOM	1996	CD PRO A 352	31.813 8.990 38.550 1.00 21.39	С
ATOM	1999	C PRO A 352	31.645 12.322 39.856 1.00 20.50	C
ATOM	2000	O PRO A 352	30.977 13.206 40.375 1.00 19.87	Ο
ATOM	2001	N ILE A 353	32.966 12.412 39.672 1.00 19.96	N
ATOM	2003	CA ILE A 353	33.689 13.627 40.076 1.00 19.92	C
ATOM	2005	CB ILE A 353	35.236 13.428 40.135 1.00 19.61	C
ATOM	2007	CG1 ILE A 353	35.686 12.406 41.190 1.00 20.31	C
ATOM	2010	CD1 ILE A 353	34.657 11.997 42.210 1.00 22.76	С
ATOM	2014	CG2 ILE A 353	35.906 14.762 40.367 1.00 19.04	C
ATOM ·	2018	C ILE A 353	33.379 14.758 39.099 1.00 19.71	C
ATOM	2019	O ILE A 353	33.261 15.903 39.505 1.00 19.66	Ο
ATOM	2020	N PHE A 354	33.280 14.435 37.812 1.00 19.64	N
ATOM	2022	CA PHE A 354	32.886 15.431 36.785 1.00 19.92	С
ATOM	2024	CB PHE A 354	33.175 14.938 35.370 1.00 19.71	C
ATOM	2027	CG PHE A 354	34.513 15.328 34.876 1.00 20.80	C
ATOM	2028	CD1 PHE A 354	35.625 14.553 35.182 1.00 23.54	С
ATOM	2030	CE1 PHE A 354	36.896 14.919 34.739 1.00 24.39	C
ATOM	2032	CZ PHE A 354	37.056 16.066 33.983 1.00 24.23	С
ATOM	2034	CE2 PHE A 354	35.946 16.849 33.685 1.00 23.89	C
ATOM	2036	CD2 PHE A 354	34.685 16.477 34.140 1.00 22.42	С
ATOM	2038	C PHE A 354	31.424 15.884 36.877 1.00 19.67	C
ATOM			31.126 17.052 36.613 1.00 19.35	O
		N GLU A 355	30.541 14.976 37.286 1.00 19.54	N
ATOM	2042	CA GLU A 355	29.141 15.314 37.550 1.00 19.97	C
ATOM		CB GLU A 355	28.337 14.053 37.852 1.00 20.00	C
ATOM	2047	CG GLU A 355	27.688 13.441 36.635 1.00 22.53	С
		CD GLU A 355	27.848 11.929 36.543 1.00 26.22	C
ATOM		OE1 GLU A 355	27.853 11.411 35.386 1.00 26.82	О
ATOM		OE2 GLU A 355	27.946 11.267 37.610 1.00 27.50	0
ATOM		C GLU A 355	29.036 16.284 38.734 1.00 19.93	C
ATOM		O GLU A 355	28.311 17.264 38.684 1.00 19.80	0
		N PHE A 356	29.794 16.011 39.785 1.00 19.56	N
		CA PHE A 356	29.799 16.853 40.966 1.00 19.66	C
ATOM	2059	CB PHE A 356	30.591 16.167 42.081 1.00 19.44	С

ATOM 2062 CG PHE A 356 30.659 16.955 43.348 1.00 20.91 C ATOM 2063 CD1 PHE A 356 29.577 16.978 44.223 1.00 20.43 C ATOM 2065 CE1 PHE A 356 29.647 17.694 45.404 1.00 19.47 C ATOM 2067 CZ PHE A 356 30.809 18.396 45.720 1.00 18.74 ATOM 2069 CE2 PHE A 356 31.881 18.384 44.855 1.00 19.01 C ATOM 2071 CD2 PHE A 356 31.811 17.672 43.678 1.00 19.31 C ATOM 2073 C PHE A 356 30.373 18.223 40.625 1.00 19.40 ATOM 2074 O PHE A 356 29.825 19.225 40.990 1.00 18.28 0 ATOM 2075 N SER A 357 31.457 18.249 39.870 1.00 20.60 N ATOM 2077 CA SER A 357 32.128 19.499 39.503 1.00 20.59 C ATOM 2079 CB SER A 357 33.338 19.227 38.602 1.00 20.29 C ATOM 2082 OG SER A 357 34.369 18.580 39.329 1.00 20.02 0 ATOM 2084 C SER A 357 31.194 20.445 38.806 1.00 20.65 C 31.099 21.606 39.160 1.00 21.92 ATOM 2085 O SER A 357 0 ATOM 2086 N ARG A 358 30.488 19.958 37.815 1.00 21.00 N ATOM 2088 CA ARG A 358 29.605 20.841 37.041 1.00 21.25 C ATOM 2090 CB ARG A 358 29.238 20.203 35.708 1.00 21.20 C ATOM 2093 CG ARG A 358 28.561 18.881 35.802 1.00 22.25 C ATOM 2096 CD ARG A 358 28.071 18.403 34.441 1.00 23.15 C ATOM 2099 NE ARG A 358 29.192 17.895 33.667 1.00 23.60 N 29.508 16.607 33.533 1.00 26.50 ATOM 2101 CZ ARG A 358 C ATOM 2102 NH1 ARG A 358 28.770 15.650 34.106 1.00 26.64 N ATOM 2105 NH2 ARG A 358 30.558 16.272 32.783 1.00 28.29 N ATOM 2108 C ARG A 358 28.361 21.285 37.816 1.00 21.19 C ATOM 2109 O ARG A 358 27.888 22.421 37.655 1.00 20.90 0 ATOM 2110 N ALA A 359 27.845 20.399 38.664 1.00 21.30 N ATOM 2112 CA ALA A 359 26.770 20.738 39.595 1.00 21.67 C ATOM 2114 CB ALA A 359 26.329 19.479 40.375 1.00 21.76 C ATOM 2118 C ALA A 359 27.213 21.831 40.576 1.00 22.18 C ATOM 2119 O ALA A 359 26.457 22.711 40.925 1.00 21.77 0 ATOM 2120 N MET A 360 28.457 21.767 41.001 1.00 23.01 ATOM 2122 CA MET A 360 29.009 22.748 41.919 1.00 24.64 C ATOM 2124 CB MET A 360 30.361 22.254 42.446 1.00 24.59 C ATOM 2127 CG MET A 360 30.641 22.625 43.881 1.00 27.53 C ATOM 2130 SD MET A 360 29.338 22.222 45.065 1.00 26.30 S ATOM 2131 CE MET A 360 29.857 20.934 45.508 1.00 30.19 C ATOM 2135 C MET A 360 29.148 24.121 41.258 1.00 25.19 C ATOM 2136 O MET A 360 28.926 25.162 41.894 1.00 25.74 0 ATOM 2137 N ARG A 361 29.480 24.126 39.972 1.00 25.84 N ATOM 2139 CA ARG A 361 29.584 25.371 39.224 1.00 26.35 C ATOM 2141 CB ARG A 361 30.249 25.117 37.869 1.00 27.12 ATOM 2144 CG ARG A 361 31.701 24.623 37.971 1.00 29.89 C ATOM 2147 CD ARG A 361 32.662 25.573 38.673 1.00 31.97 C ATOM 2150 NE ARG A 361 33.039 26.712 37.829 1.00 33.46 N ATOM 2152 CZ ARG A 361 33.860 27.693 38.219 1.00 35.94 C ATOM 2153 NH1 ARG A 361 34.416 27.690 39.435 1.00 36.21 N ATOM 2156 NH2 ARG A 361 34.127 28.692 37.390 1.00 37.44 N ATOM 2159 C ARG A 361 28.239 26.054 38.996 1.00 26.11 C

ATOM	2160 O ARG A 361	28.179 27.284 38.839 1.00 26.26	O
ATOM	2161 N ARG A 362	27.159 25.276 38.939 1.00 25.48	N
ATOM	2163 CA ARG A 362	25.834 25.863 38.729 1.00 25.07	С
ATOM	2165 CB ARG A 362	24.771 24.804 38.378 1.00 25.05	С
ATOM	2168 CG ARG A 362	24.727 24.487 36.901 1.00 26.61	С
		23.614 23.522 36.494 1.00 30.55	Č
		24.090 22.127 36.484 1.00 33.30	N
		23.737 21.173 37.352 1.00 33.74	C
	2177 NH1 ARG A 362		N
	2180 NH2 ARG A 362		N
	2183 C ARG A 362		C
	2184 O ARG A 362		Ö
	2185 N LEU A 363		Ň
		25.515 26.735 42.390 1.00 23.70	Ċ
		25.927 25.841 43.562 1.00 24.14	Č
		24.872 25.174 44.445 1.00 25.78	Ċ
		25.540 24.801 45.755 1.00 26.68	C
	2198 CD2 LEU A 363		C
	2202 C LEU A 363	26.223 28.081 42.502 1.00 22.89	c
	2202 C LEU A 363		0
		27.355 28.251 41.826 1.00 22.35	N
		28.092 29.509 41.865 1.00 21.60	C
			C
	2209 C GLY A 364		
	2210 O GLY A 364		0
	2211 N LEU A 365		N
		29.409 29.712 45.439 1.00 20.77	C
		29.970 28.563 46.257 1.00 20.89	C
		29.053 27.368 46.534 1.00 21.09	С
		29.655 26.540 47.624 1.00 23.59	C
		27.722 27.838 46.955 1.00 23.26	C
	2228 C LEU A 365		C
	2229 O LEU A 365		0
		30.390 31.819 46.241 1.00 19.34	N
		31.450 32.813 46.304 1.00 18.83	C
	2234 CB ASP A 366		C
	2237 CG ASP A 366	30.328 34.442 47.922 1.00 19.79	С
	2238 OD1 ASP A 366	30.648 33.664 48.849 1.00 22.64	О
	2239 OD2 ASP A 366	29.547 35.383 48.175 1.00 18.75	О
	2240 C ASP A 366	32.511 32.369 47.311 1.00 18.05	С
	2241 O ASP A 366	32.373 31.318 47.902 1.00 17.47	O
ATOM	2242 N ASP A 367	33.577 33.145 47.458 1.00 18.22	N
ATOM	2244 CA ASP A 367	34.732 32.766 48.286 1.00 18.77	С
	2246 CB ASP A 367	35.792 33.879 48.276 1.00 19.56	C
	2249 CG ASP A 367	36.570 33.986 46.950 1.00 21.86	C
ATOM	2250 OD1 ASP A 367	36.252 33.299 45.969 1.00 26.50	Ο
ATOM	2251 OD2 ASP A 367	37.556 34.750 46.808 1.00 29.03	Ο
ATOM	2252 C ASP A 367	34.328 32.482 49.740 1.00 18.55	С
ATOM	2253 O ASP A 367	34.810 31.527 50.340 1.00 18.77	0

ATOM	2254 N ALA A 368	33.436 33.304 50.291 1.00 17.60	N
ATOM	2256 CA ALA A 368	32.965 33.127 51.656 1.00 17.92	C
ATOM	2258 CB ALA A 368	32.127 34.347 52.106 1.00 17.88	С
ATOM	2262 C ALA A 368	32.145 31.847 51.823 1.00 17.92	C
ATOM	2263 O ALA A 368	32.291 31.149 52.819 1.00 17.06	O
ATOM	2264 N GLU A 369	31.273 31.572 50.848 1.00 17.90	N
	2266 CA GLU A 369		С
ATOM	2268 CB GLU A 369	29.392 30.448 49.719 1.00 17.89	C
ATOM	2271 CG GLU A 369	28.197 31.315 50.072 1.00 17.84	С
ATOM			C
ATOM	2275 OE1 GLU A 369	26.183 32.053 49.081 1.00 19.99	0
	2276 OE2 GLU A 369	27.877 31.780 47.764 1.00 16.22	Ō
	2277 C GLU A 369	31.273 29.120 50.784 1.00 17.98	C
ATOM			Ö
ATOM		32.237 29.043 49.860 1.00 17.69	Ň
ATOM	2281 CA TYR A 370	33,179 27.919 49.811 1.00 18.46	C
ATOM	2283 CB TYR A 370		č
ATOM			Č
	2287 CD1 TYR A 370		C
			Č
ATOM	2291 CZ TYR A 370		c
			O
	2292 OH TYR A 370	33.619 25.317 46.197 1.00 29.61	C
ATOM			C
ATOM	2296 CD2 TYR A 370	34.001 25.994 47.374 1.00 25.53	
ATOM		33.898 27.711 51.121 1.00 18.02	C
ATOM		33.884 26.603 51.653 1.00 18.12	0
ATOM	2300 N ALA A 371	34.570 28.759 51.604 1.00 17.46	N
ATOM			C
		35.915 30.075 53.187 1.00 17.37	C
ATOM			C
ATOM		34.867 27.264 54.744 1.00 17.61	0
ATOM			N
		32.379 28.367 55.235 1.00 18.10	C
	2314 CB LEU A 372		С
	2317 CG LEU A 372		C
	2319 CD1 LEU A 372	30.261 31.616 55.581 1.00 18.92	С
	2323 CD2 LEU A 372	31.503 30.529 57.490 1.00 17.39	C
ATOM	2327 C LEU A 372	31.915 26.919 55.066 1.00 18.84	С
ATOM	2328 O LEU A 372	31.794 26.203 56.054 1.00 18.91	O
ATOM	2329 N LEU A 373	31.675 26.473 53.839 1.00 19.14	N
ATOM	2331 CA LEU A 373	31.293 25.074 53.601 1.00 19.70	C
ATOM	2333 CB LEU A 373	31.049 24.809 52.126 1.00 19.70	С
ATOM	2336 CG LEU A 373	29.782 24.100 51.665 1.00 21.26	С
ATOM	2338 CD1 LEU A 373	30.074 23.402 50.324 1.00 22.41	С
ATOM	2342 CD2 LEU A 373	29.130 23.141 52.650 1.00 20.53	С
ATOM	2346 C LEU A 373	32.383 24.129 54.043 1.00 20.13	С
ATOM	2347 O LEU A 373	32.129 23.098 54.647 1.00 20.93	0
ATOM	2348 N ILE A 374	33.614 24.476 53.736 1.00 20.60	N

ATOM 2350 CA ILE A 374 34.753 23.657 54.113 1.00 20.44 C ATOM 2352 CB ILE A 374 36.018 24.226 53.480 1.00 20.73 C ATOM 2354 CG1 ILE A 374 36.007 23.898 51.988 1.00 20.20 C ATOM 2357 CD1 ILE A 374 37.030 24.646 51.130 1.00 20.32 C ATOM 2361 CG2 ILE A 374 37.272 23.623 54.158 1.00 23.14 C ATOM 2365 C ILE A 374 34.890 23.516 55.626 1.00 20.57 C 35.044 22.411 56.116 1.00 22.25 ATOM 2366 O ILE A 374 0 ATOM 2367 N ALA A 375 34.835 24.615 56.374 1.00 20.16 N ATOM 2369 CA ALA A 375 34.859 24.573 57.829 1.00 19.27 C 34.780 25.972 58.370 1.00 19.60 ATOM 2371 CB ALA A 375 C ATOM 2375 C ALA A 375 33.705 23.743 58.391 1.00 19.34 \mathbf{C} ATOM 2376 O ALA A 375 33.849 23.045 59.387 1.00 19.63 0 ATOM 2377 N ILE A 376 32.540 23.828 57.767 1.00 19.42 N ATOM 2379 CA ILE A 376 31.390 23.066 58.227 1.00 18.80 C ATOM 2381 CB ILE A 376 30.092 23.502 57.515 1.00 17.92 C 29.576 24.820 58.079 1.00 17.49 ATOM 2383 CG1 ILE A 376 C ATOM 2386 CD1 ILE A 376 28.585 25.567 57.139 1.00 16.73 C ATOM 2390 CG2 ILE A 376 28.994 22.466 57.695 1.00 19.11 C ATOM 2394 C ILE A 376 31.683 21.603 57.971 1.00 19.50 C 31.306 20.773 58.774 1.00 20.11 ATOM 2395 O ILE A 376 0 ATOM 2396 N ASN A 377 32.336 21.294 56.847 1.00 20.52 N ATOM 2398 CA ASN A 377 32.680 19.915 56.469 1.00 20.93 C ATOM 2400 CB ASN A 377 33.307 19.872 55.085 1.00 21.62 C ATOM 2403 CG ASN A 377 33.690 18.453 54.641 1.00 22.72 ATOM 2404 OD1 ASN A 377 32.979 17.837 53.867 1.00 22.99 0 ATOM 2405 ND2 ASN A 377 34.812 17.947 55.141 1.00 20.87 N ATOM 2408 C ASN A 377 33.671 19.331 57.433 1.00 21.11 C 33.517 18.205 57.869 1.00 21.98 ATOM 2409 O ASN A 377 0 ATOM 2410 N ILE A 378 34.672 20.121 57.783 1.00 21.41 N ATOM 2412 CA ILE A 378 35.681 19.716 58.758 1.00 21.93 C 36.697 20.853 58.960 1.00 21.86 ATOM 2414 CB ILE A 378 C ATOM 2416 CG1 ILE A 378 37.633 20.936 57.757 1.00 21.82 C ATOM 2419 CD1 ILE A 378 38.474 22.216 57.746 1.00 23.11 C ATOM 2423 CG2 ILE A 378 37.536 20.629 60.215 1.00 23.23 C ATOM 2427 C ILE A 378 35.086 19.287 60.094 1.00 21.90 C ATOM 2428 O ILE A 378 35.470 18.250 60.642 1.00 22.53 0 ATOM 2429 N PHE A 379 34.168 20.086 60.630 1.00 21.90 N ATOM 2431 CA PHE A 379 33.632 19.825 61.970 1.00 21.69 C ATOM 2433 CB PHE A 379 33.313 21.140 62.711 1.00 21.31 C ATOM 2436 CG PHE A 379 34.536 21.991 62.992 1.00 21.12 ATOM 2437 CD1 PHE A 379 34.639 23.276 62.499 1.00 21.16 C ATOM 2439 CE1 PHE A 379 35.771 24.028 62.745 1.00 21.97 C ATOM 2441 CZ PHE A 379 36.806 23.504 63.484 1.00 21.44 C ATOM 2443 CE2 PHE A 379 36.715 22.241 63.981 1.00 19.78 C ATOM 2445 CD2 PHE A 379 35.587 21.490 63.733 1.00 21.14 C ATOM 2447 C PHE A 379 32.398 18.934 61.907 1.00 21.30 C ATOM 2448 O PHE A 379 31.353 19.317 62.396 1.00 21.90 0 ATOM 2449 N SER A 380 32.517 17.758 61.310 1.00 20.97 N

ATOM	2451	CA SER A 380	31.407 16.796 61.282 1.00 21.44	С
ATOM	2453	CB SER A 380	31.307 16.061 59.944 1.00 21.03	C
ATOM	2456	OG SER A 380	31.393 16.992 58.889 1.00 23.07	Ο
ATOM	2458	C SER A 380	31.656 15.814 62.382 1.00 21.42	C
ATOM	2459	O SER A 380	32.626 15.075 62.340 1.00 21.37	Ο
ATOM	2460	N ALA A 381	30.781 15.804 63.376 1.00 22.21	N
ATOM	2462	CA ALA A 381	31.019 15.021 64.579 1.00 22.72	С
ATOM	2464	CB ALA A 381	30.066 15.461 65.667 1.00 23.12	C
ATOM	2468	C ALA A 381	30.879 13.518 64.339 1.00 23.30	С
ATOM	2469	O ALA A 381	31.284 12.728 65.200 1.00 24.29	O
		N ASP A 382	30.309 13.117 63.195 1.00 23.11	N
_			30.071 11.692 62.904 1.00 23.18	C
ATOM	2474	CB ASP A 382	28.734 11.504 62.202 1.00 23.26	С
ATOM	2477	CG ASP A 382	28.698 12.110 60.819 1.00 25.57	C
ATOM	2478	OD1 ASP A 382	29.572 12.946 60.478 1.00 24.08	О
ATOM	2479	OD2 ASP A 382	27.781 11.837 60.010 1.00 29.55	О
ATOM	2480	C ASP A 382	31.180 10.986 62.111 1.00 23.20	С
		O ASP A 382	30.988 9.859 61.646 1.00 23.89	О
			32.347 11.628 61.974 1.00 22.57	N
			33.500 11.008 61.312 1.00 21.50	C
ATOM	2486	CB ARG A 383	34.667 11.995 61.218 1.00 21.27	С
		CG ARG A 383	34.340 13.312 60.528 1.00 21.52	C
ATOM	2492	CD ARG A 383		C
		NE ARG A 383		N
		CZ ARG A 383		С
			33.204 13.131 56.393 1.00 19.43	N
			33.781 15.343 56.222 1.00 23.34	N
		C ARG A 383		С
			33.719 9.770 63.334 1.00 21.47	О
		N PRO A 384		N
			35.176 7.721 62.241 1.00 21.10	С
		CB PRO A 384		С
		CG PRO A 384	35.280 7.338 59.855 1.00 21.47	C
		CD PRO A 384	34.712 8.700 60.046 1.00 20.67	C
		C PRO A 384	36.222 8.149 63.278 1.00 21.38	C
		O PRO A 384	37.054 9.026 63.002 1.00 21.60	О
		N ASN A 385	36.188 7.513 64.445 1.00 21.55	N
		CA ASN A 385	37.226 7.665 65.488 1.00 21.22	С
		CB ASN A 385	38.619 7.375 64.905 1.00 21.33	C
		CG ASN A 385	38.708 5.977 64.310 1.00 20.84	C
		OD1 ASN A 385	38.458 5.013 65.008 1.00 22.86	О
		ND2 ASN A 385	39.017 5.867 63.026 1.00 17.53	N
		C ASN A 385	37.233 8.991 66.253 1.00 20.97	C
		O ASN A 385	38.190 9.282 66.922 1.00 20.77	0
		N VAL A 386	36.158 9.774 66.177 1.00 20.83	N
		CA VAL A 386	36.042 10.996 66.964 1.00 20.53	C
		CB VAL A 386	35.027 11.967 66.340 1.00 20.29	C
ATOM	2540	CG1 VAL A 386	34.755 13.131 67.264 1.00 20.90	С

ATOM	2544 CG2 VAL A 386	35.552 12.486 64.983 1.00 20.31	С
ATOM	2548 C VAL A 386	35.673 10.695 68.430 1.00 20.67	С
ATOM	2549 O VAL A 386	34.735 9.950 68.720 1.00 20.08	O
ATOM	2550 N GLN A 387	36.410 11.309 69.344 1.00 20.66	N
ATOM	2552 CA GLN A 387	36.303 11.018 70.771 1.00 21.25	С
ATOM	2554 CB GLN A 387	37.668 11.084 71.458 1.00 21.61	C
ATOM	2557 CG GLN A 387	38.837 10.601 70.615 1.00 23.93	C
ATOM	2560 CD GLN A 387	39.596 9.483 71.255 1.00 25.34	C
ATOM	2561 OE1 GLN A 387	38.994 8.517 71.705 1.00 29.43	Ο
ATOM	2562 NE2 GLN A 387	40.924 9.598 71.292 1.00 27.17	N
ATOM	2565 C GLN A 387	35.391 12.007 71.455 1.00 20.57	C
ATOM	2566 O GLN A 387	34.745 11.659 72.413 1.00 20.97	O
ATOM	2567 N GLU A 388	35.335 13.227 70.945 1.00 20.17	N
ATOM	2569 CA GLU A 388	34.566 14.301 71.551 1.00 20.02	C
ATOM	2571 CB GLU A 388	35.526 15.372 72.037 1.00 20.38	C
		36.601 14.797 72.937 1.00 21.88	C
ATOM	2577 CD GLU A 388	37.233 15.860 73.794 1.00 24.28	C
ATOM	2578 OE1 GLU A 388	37.975 16.680 73.239 1.00 27.15	Ο
ATOM	2579 OE2 GLU A 388	36.976 15.885 75.008 1.00 25.68	Ο
ATOM	2580 C GLU A 388	33.591 14.868 70.532 1.00 19.21	С
ATOM	2581 O GLU A 388	33.710 16.011 70.126 1.00 18.78	Ο
ATOM	2582 N PRO A 389	32.632 14.056 70.107 1.00 19.33	N
ATOM	2583 CA PRO A 389	31.691 14.477 69.063 1.00 19.55	C
ATOM	2585 CB PRO A 389	30.836 13.208 68.812 1.00 20.13	C
ATOM	2588 CG PRO A 389	30.992 12.348 70.066 1.00 19.37	C
ATOM	2591 CD PRO A 389	32.374 12.668 70.564 1.00 19.24	C
ATOM	2594 C PRO A 389	30.838 15.675 69.482 1.00 19.37	C
ATOM	2595 O PRO A 389	30.576 16.559 68.644 1.00 19.74	Ο
ATOM	2596 N GLY A 390	30.420 15.718 70.742 1.00 19.03	N
ATOM	2598 CA GLY A 390	29.702 16.866 71.267 1.00 18.88	C
ATOM	2601 C GLY A 390	30.465 18.182 71.091 1.00 19.43	С
	2602 O GLY A 390	29.873 19.229 70.755 1.00 19.60	О
ATOM	2603 N ARG A 391	31.770 18.158 71.346 1.00 19.20	N
		32.605 19.344 71.106 1.00 19.79	C
ATOM	2607 CB ARG A 391		C
	2610 CG ARG A 391	33.984 18.973 73.171 1.00 23.73	C
	2613 CD ARG A 391	35.374 18.976 73.748 1.00 28.60	C
	2616 NE ARG A 391	36.026 20.260 73.495 1.00 31.62	N
	2618 CZ ARG A 391	37.335 20.439 73.329 1.00 33.77	C
	2619 NH1 ARG A 391	38.191 19.412 73.360 1.00 33.29	N
	2622 NH2 ARG A 391	37.788 21.673 73.139 1.00 34.43	N
	2625 C ARG A 391	32.737 19.725 69.632 1.00 19.01	C
	2626 O ARG A 391	32.721 20.900 69.304 1.00 18.13	О
	2627 N VAL A 392	32.890 18.725 68.757 1.00 19.26	N
ATOM	2629 CA VAL A 392	33.046 18.963 67.328 1.00 19.48	C
	2631 CB VAL A 392	33.342 17.673 66.560 1.00 19.79	C
		33.239 17.903 65.035 1.00 19.28	C
ATOM	2637 CG2 VAL A 392	34.711 17.159 66.908 1.00 19.99	С

ATOM 2641 C VAL A 392 31.777 19.603 66.769 1.00 19.62 C ATOM 2642 O VAL A 392 31.831 20.535 65.999 1.00 19.42 0 ATOM 2643 N GLU A 393 30.642 19.100 67.198 1.00 20.52 N ATOM 2645 CA GLU A 393 29.347 19.608 66.793 1.00 21.87 C ATOM 2647 CB GLU A 393 28.248 18.672 67.314 1.00 22.09 C ATOM 2650 CG GLU A 393 26.863 19.094 66.918 1.00 25.31 C ATOM 2653 CD GLU A 393 25.910 17.906 66.851 1.00 31.55 C ATOM 2654 OE1 GLU A 393 25.791 17.278 65.761 1.00 35.01 0 ATOM 2655 OE2 GLU A 393 25.299 17.600 67.889 1.00 29.86 0 ATOM 2656 C GLU A 393 29.106 21.018 67.326 1.00 21.32 C ATOM 2657 O GLU A 393 28.547 21.851 66.618 1.00 21.71 0 ATOM 2658 N ALA A 394 29.513 21.266 68.568 1.00 20.57 N ATOM 2660 CA ALA A 394 29.487 22.622 69.140 1.00 20.63 C ATOM 2662 CB ALA A 394 29.963 22.621 70.604 1.00 20.34 C ATOM 2666 C ALA A 394 30.311 23.610 68.336 1.00 20.23 ATOM 2667 O ALA A 394 29.905 24.737 68.177 1.00 21.04 0 ATOM 2668 N LEU A 395 31.461 23.190 67.822 1.00 20.50 N ATOM 2670 CA LEU A 395 32.321 24.064 66.995 1.00 20.42 \mathbf{C} ATOM 2672 CB LEU A 395 33.735 23.485 66.916 1.00 20.95 C ATOM 2675 CG LEU A 395 34.556 23.430 68.201 1.00 21.40 ATOM 2677 CD1 LEU A 395 35.821 22.577 68.001 1.00 22.05 C ATOM 2681 CD2 LEU A 395 34.909 24.806 68.674 1.00 22.08 C ATOM 2685 C LEU A 395 31.814 24.286 65.564 1.00 20.04 C ATOM 2686 O LEU A 395 32.072 25.331 64.962 1.00 20.55 O ATOM 2687 N GLN A 396 31.114 23.299 65.022 1.00 19.81 N ATOM 2689 CA GLN A 396 30.460 23.425 63.726 1.00 19.89 C ATOM 2691 CB GLN A 396 29.816 22.092 63.308 1.00 19.46 ATOM 2694 CG GLN A 396 29.349 22.087 61.880 1.00 20.05 ATOM 2697 CD GLN A 396 28.547 20.868 61.512 1.00 20.76 \mathbf{C} ATOM 2698 OE1 GLN A 396 28.946 20.093 60.639 1.00 20.87 0 ATOM 2699 NE2 GLN A 396 27.415 20.701 62.155 1.00 19.29 N ATOM 2702 C GLN A 396 29.350 24.466 63.745 1.00 20.14 C ATOM 2703 O GLN A 396 29.106 25.131 62.739 1.00 19.96 0 ATOM 2704 N GLN A 397 28.666 24.573 64.883 1.00 20.08 N ATOM 2706 CA GLN A 397 27.486 25.435 65.013 1.00 20.81 C ATOM 2708 CB GLN A 397 26.953 25.404 66.461 1.00 21.11 C ATOM 2711 CG GLN A 397 25.829 26.375 66.731 1.00 22.41 C ATOM 2714 CD GLN A 397 25.275 26.284 68.143 1.00 25.12 C ATOM 2715 OE1 GLN A 397 25.037 27.319 68.798 1.00 27.27 0 ATOM 2716 NE2 GLN A 397 25.059 25.069 68.614 1.00 24.96 N ATOM 2719 C GLN A 397 27.676 26.899 64.538 1.00 19.94 C ATOM 2720 O GLN A 397 26.883 27.373 63.738 1.00 20.40 0 ATOM 2721 N PRO A 398 28.677 27.616 65.020 1.00 18.90 N ATOM 2722 CA PRO A 398 28.857 29.018 64.614 1.00 19.15 C ATOM 2724 CB PRO A 398 30.007 29.512 65.507 1.00 18.85 C ATOM 2727 CG PRO A 398 30.743 28.277 65.909 1.00 20.07 C ATOM 2730 CD PRO A 398 29.657 27.204 66.034 1.00 19.69 C ATOM 2733 C PRO A 398 29.167 29.251 63.119 1.00 18.91

ATOM	2734 O PRO A 398	28.857 30.307 62.568 1.00 17.18	0
ATOM	2735 N TYR A 399	29.774 28.259 62.484 1.00 19.69	N
ATOM	2737 CA TYR A 399	30.012 28.289 61.040 1.00 19.26	C
ATOM	2739 CB TYR A 399	31.049 27.222 60.671 1.00 19.22	С
ATOM	2742 CG TYR A 399	32.415 27.587 61.189 1.00 18.15	С
ATOM	2743 CD1 TYR A 399	32.936 26.967 62.292 1.00 17.16	C
ATOM	2745 CE1 TYR A 399	34.165 27.340 62.790 1.00 19.02	C
ATOM	2747 CZ TYR A 399	34.894 28.332 62.166 1.00 18.35	C
ATOM	2748 OH TYR A 399	36.116 28.686 62.661 1.00 17.87	О
ATOM	2750 CE2 TYR A 399	34.388 28.977 61.073 1.00 18.04	C
ATOM	2752 CD2 TYR A 399	33.148 28.613 60.602 1.00 18.73	С
ATOM	2754 C TYR A 399	28.701 28.069 60.293 1.00 19.80	C
ATOM	2755 O TYR A 399	28.463 28.654 59.241 1.00 19.18	O
ATOM	2756 N VAL A 400	27.837 27.225 60.843 1.00 20.31	N
ATOM	2758 CA VAL A 400	26.541 27.011 60.241 1.00 20.60	C
ATOM	2760 CB VAL A 400	25.830 25.790 60.824 1.00 21.06	C
ATOM	2762 CG1 VAL A 400	24.389 25.645 60.234 1.00 21.52	С
ATOM	2766 CG2 VAL A 400	26.612 24.533 60.510 1.00 22.13	С
ATOM	2770 C VAL A 400	25.700 28.279 60.390 1.00 20.94	C
ATOM	2771 O VAL A 400	25.079 28.693 59.414 1.00 20.92	O
ATOM	2772 N GLU A 401	25.682 28.885 61.585 1.00 20.87	N
ATOM	2774 CA GLU A 401	24.985 30.170 61.810 1.00 21.54	С
ATOM	2776 CB GLU A 401	25.136 30.691 63.261 1.00 21.83	С
ATOM	2779 CG GLU A 401	24.475 29.824 64.338 1.00 25.56	С
ATOM	2782 CD GLU A 401	24.990 30.068 65.784 1.00 29.57	С
ATOM	2783 OE1 GLU A 401	25.925 30.868 65.976 1.00 31.30	О
ATOM	2784 OE2 GLU A 401	24.467 29.437 66.753 1.00 31.62	О
ATOM	2785 C GLU A 401	25.499 31.246 60.872 1.00 20.55	C
ATOM	2786 O GLU A 401	24.730 32.022 60.316 1.00 20.34	О
ATOM	2787 N ALA A 402	26.809 31.288 60.677 1.00 20.10	N
ATOM	2789 CA ALA A 402	27.407 32.335 59.848 1.00 19.57	С
ATOM	2791 CB ALA A 402	28.900 32.391 60.054 1.00 19.31	С
ATOM	2795 C ALA A 402	27.058 32.159 58.374 1.00 19.18	C
ATOM	2796 O ALA A 402	26.887 33.131 57.651 1.00 19.24	O
ATOM	2797 N LEU A 403	26.913 30.920 57.936 1.00 19.59	N
ATOM	2799 CA LEU A 403	26.528 30.647 56.568 1.00 20.27	C
ATOM	2801 CB LEU A 403	26.823 29.204 56.201 1.00 20.37	C
ATOM	2804 CG LEU A 403	26.459 28.814 54.774 1.00 21.69	C
ATOM	2806 CD1 LEU A 403	27.279 29.594 53.750 1.00 21.45	С
	2810 CD2 LEU A 403	26.646 27.298 54.582 1.00 24.93	C
ATOM	2814 C LEU A 403	25.052 30.962 56.353 1.00 20.94	С
	2815 O LEU A 403	24.664 31.443 55.290 1.00 21.36	0
	2816 N LEU A 404	24.234 30.697 57.362 1.00 21.38	N
	2818 CA LEU A 404	22.818 31.015 57.297 1.00 22.19	С
	2820 CB LEU A 404	22.133 30.528 58.566 1.00 22.76	С
	2823 CG LEU A 404	20.627 30.693 58.686 1.00 25.06	Ċ
	2825 CD1 LEU A 404	19.934 30.227 57.408 1.00 27.19	C
ATOM		20.151 29.882 59.900 1.00 27.37	C

ATOM	2833	C LEU A 404	22.625 32.534 57.122 1.00 21.70	С
ATOM	2834	O LEU A 404	22.002 32.975 56.168 1.00 21.60	Ο
ATOM	2835	N SER A 405	23.195 33.319 58.031 1.00 21.30	N
ATOM	2837	CA SER A 405	23.169 34.778 57.943 1.00 20.95	C
ATOM	2839	CB SER A 405	23.898 35.380 59.123 1.00 21.13	C
ATOM	2842	OG SER A 405	23.248 34.989 60.299 1.00 23.32	O
ATOM	2844	C SER A 405	23.796 35.324 56.679 1.00 20.23	C
ATOM	2845	O SER A 405	23.283 36.246 56.110 1.00 20.11	O
ATOM	2846	N TYR A 406	24.905 34.757 56.235 1.00 20.19	N
ATOM	2848	CA TYR A 406	25.554 35.275 55.037 1.00 20.26	С
ATOM	2850	CB TYR A 406	26.921 34.616 54.808 1.00 20.03	C
ATOM	2853	CG TYR A 406	27.677 35.166 53.628 1.00 17.48	C
ATOM	2854	CD1 TYR A 406	28.569 36.203 53.766 1.00 17.11	C
ATOM	2856	CE1 TYR A 406	29.248 36.732 52.656 1.00 15.31	C
ATOM	2858	CZ TYR A 406	29.050 36.154 51.417 1.00 14.97	C
ATOM	2859	OH TYR A 406	29.700 36.603 50.291 1.00 12.86	О
ATOM	2861	CE2 TYR A 406	28.182 35.116 51.282 1.00 14.49	C
ATOM	2863	CD2 TYR A 406	27.509 34.625 52.377 1.00 15.94	C
ATOM	2865	C TYR A 406	24.624 35.120 53.829 1.00 20.61	C
ATOM	2866	O TYR A 406	24.381 36.074 53.095 1.00 19.54	O
ATOM	2867	N THR A 407	24.073 33.924 53.652 1.00 21.38	N
ATOM	2869	CA THR A 407	23.150 33.680 52.531 1.00 21.34	C
ATOM	2871	CB THR A 407	22.887 32.191 52.342 1.00 20.99	C
ATOM	2873	OG1 THR A 407	22.439 31.609 53.558 1.00 19.37	O
ATOM	2875	CG2 THR A 407	24.193 31.441 52.047 1.00 21.26	С
ATOM	2879	C THR A 407	21.852 34.474 52.632 1.00 22.27	C
ATOM	2880	O THR A 407	21.327 34.862 51.619 1.00 21.70	O
ATOM	2881	N ARG A 408	21.359 34.748 53.840 1.00 24.06	N
ATOM	2883	CA ARG A 408	20.162 35.581 54.018 1.00 25.87	C
ATOM	2885	CB ARG A 408	19.713 35.615 55.484 1.00 26.81	C
ATOM	2888	CG ARG A 408	18.703 34.539 55.906 1.00 31.03	C
ATOM	2891	CD ARG A 408	18.843 34.084 57.386 1.00 36.58	C
ATOM	2894	NE ARG A 408	17.578 34.128 58.139 1.00 40.80	N
ATOM	2896	CZ ARG A 408	16.691 33.125 58.214 1.00 45.77	C
ATOM	2897	NH1 ARG A 408	16.903 31.965 57.576 1.00 48.06	N
ATOM	2900	NH2 ARG A 408	15.573 33.278 58.927 1.00 46.91	N
ATOM	2903	C ARG A 408	20.412 37.026 53.568 1.00 26.33	С
ATOM	2904	O ARG A 408	19.545 37.660 52.972 1.00 25.83	Ο
ATOM	2905	N ILE A 409	21.600 37.548 53.862 1.00 27.14	N
ATOM	2907	CA ILE A 409	21.931 38.933 53.524 1.00 27.95	C
ATOM	2909	CB ILE A 409	22.948 39.502 54.544 1.00 28.07	C
ATOM	2911	CG1 ILE A 409	22.378 39.380 55.969 1.00 28.89	С
ATOM	2914	CD1 ILE A 409	23.421 39.279 57.074 1.00 29.04	C
ATOM	2918	CG2 ILE A 409	23.287 40.965 54.207 1.00 27.74	С
ATOM	2922	C ILE A 409	22.435 39.106 52.069 1.00 28.50	С
ATOM	2923	O ILE A 409	22.057 40.064 51.386 1.00 27.67	O
ATOM	2924	N LYS A 410	23.261 38.167 51.608 1.00 29.16	N
ATOM	2926	CA LYS A 410	23.895 38.251 50.302 1.00 30.15	C

25.247 37.506 50.311 1.00 30.82 C ATOM 2928 CB LYS A 410 26.062 37.547 48.967 1.00 33.21 C ATOM 2931 CG LYS A 410 26.430 36.112 48.413 1.00 35.52 C ATOM 2934 CD LYS A 410 26.557 36.067 46.877 1.00 36.92 ATOM 2937 CE LYS A 410 ATOM 2940 NZ LYS A 410 25.850 34.904 46.256 1.00 37.82 Ν C ATOM 2944 C LYS A 410 22.970 37.748 49.193 1.00 30.35 23.070 38.214 48.058 1.00 30.24 0 ATOM 2945 O LYS A 410 ATOM 2946 N ARG A 411 22.051 36.833 49.509 1.00 30.70 N 21.067 36.362 48.517 1.00 31.19 ATOM 2948 CA ARG A 411 21.466 34.987 47.970 1.00 31.83 C ATOM 2950 CB ARG A 411 C 22.694 34.988 47.043 1.00 35.36 ATOM 2953 CG ARG A 411 C 23.101 33.573 46.543 1.00 40.08 ATOM 2956 CD ARG A 411 23.290 33.462 45.081 1.00 42.67 N ATOM 2959 NE ARG A 411 22.310 33.545 44.163 1.00 43.67 C ATOM 2961 CZ ARG A 411 21.040 33.758 44.521 1.00 43.02 ATOM 2962 NH1 ARG A 411 N 22.609 33.417 42.869 1.00 43.56 N ATOM 2965 NH2 ARG A 411 19.656 36.304 49.105 1.00 30.61 C ATOM 2968 C ARG A 411 19.099 35.236 49.317 1.00 29.92 0 ATOM 2969 O ARG A 411 19.063 37.461 49.349 1.00 30.71 N ATOM 2970 N PRO A 412 17.830 37.526 50.136 1.00 30.88 \mathbf{C} ATOM 2971 CA PRO A 412 ATOM 2973 CB PRO A 412 17.654 39.027 50.371 1.00 30.84 C ATOM 2976 CG PRO A 412 18.399 39.681 49.265 1.00 30.56 C ATOM 2979 CD PRO A 412 19.507 38.787 48.886 1.00 30.44 C 16.590 36.922 49.444 1.00 31.46 C ATOM 2982 C PRO A 412 15.656 36.514 50.154 1.00 31.62 ATOM 2983 O PRO A 412 0 16.586 36.855 48.109 1.00 31.46 ATOM 2984 N GLN A 413 N ATOM 2986 CA GLN A 413 15.450 36.308 47.363 1.00 31.54 C 15.047 37.265 46.225 1.00 31.75 C ATOM 2988 CB GLN A 413 ATOM 2991 CG GLN A 413 14.186 38.451 46.677 1.00 32.45 C ATOM 2994 CD GLN A 413 12.697 38.121 46.787 1.00 33.94 C 11.901 38.467 45.903 1.00 34.73 ATOM 2995 OE1 GLN A 413 0 12.315 37.478 47.885 1.00 34.89 ATOM 2996 NE2 GLN A 413 N ATOM 2999 C GLN A 413 15.690 34.878 46.829 1.00 31.36 C ATOM 3000 O GLN A 413 14.913 34.383 46.013 1.00 31.27 0 ATOM 3001 N ASP A 414 16.754 34.220 47.305 1.00 31.27 N ATOM 3003 CA ASP A 414 16.985 32.786 47.074 1.00 30.71 \mathbf{C} ATOM 3005 CB ASP A 414 18.280 32.560 46.309 1.00 31.02 C C ATOM 3008 CG ASP A 414 18.531 31.093 46.011 1.00 31.49 ATOM 3009 OD1 ASP A 414 17.565 30.318 45.914 1.00 30.43 0 ATOM 3010 OD2 ASP A 414 19.675 30.626 45.858 1.00 35.74 0 ATOM 3011 C ASP A 414 17.011 32.013 48.395 1.00 29.99 C ATOM 3012 O ASP A 414 18.053 31.757 48.972 1.00 30.08 0 ATOM 3013 N GLN A 415 15.825 31.637 48.835 1.00 29.76 N ATOM 3015 CA GLN A 415 15.558 30.998 50.121 1.00 29.41 C ATOM 3017 CB GLN A 415 14.022 30.850 50.207 1.00 30.33 C ATOM 3020 CG GLN A 415 13.436 30.284 51.497 1.00 33.12 C ATOM 3023 CD GLN A 415 11.907 30.459 51.562 1.00 36.96 C ATOM 3024 OE1 GLN A 415 11.336 30.617 52.650 1.00 40.03 0

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ATOM	3025 NE2 GLN A 415	11.248 30.432 50.397 1.00 38.38	N
ATOM	3028 C GLN A 415	16.252 29.639 50.270 1.00 27.79	C
ATOM	3029 O GLN A 415	16.727 29.292 51.340 1.00 27.83	O
ATOM	3030 N LEU A 416	16.335 28.887 49.179 1.00 26.66	N
ATOM	3032 CA LEU A 416	16.873 27.521 49.191 1.00 25.86	С
ATOM	3034 CB LEU A 416		С
ATOM	3037 CG LEU A 416		C
ATOM	3039 CD1 LEU A 416	14.069 25.860 47.119 1.00 24.23	С
ATOM	3043 CD2 LEU A 416	14.276 25.986 49.577 1.00 25.64	C
ATOM	3047 C LEU A 416	18.381 27.417 48.970 1.00 25.39	C
ATOM	3048 O LEU A 416	18.920 26.315 48.870 1.00 25.50	O
ATOM		19.040 28.562 48.846 1.00 24.30	N
ATOM		20.480 28.648 48.700 1.00 23.93	C
ATOM			C
ATOM	3056 CG ARG A 417		С
ATOM	3059 CD ARG A 417		C
	3062 NE ARG A 417		N
	3064 CZ ARG A 417	24.563 30.566 46.028 1.00 32.48	C
		23.923 29.718 45.218 1.00 31.64	N
ATOM	3068 NH2 ARG A 417	25.561 31.297 45.560 1.00 35.09	N
ATOM	3071 C ARG A 417	21.189 27.809 49.740 1.00 22.27	C
ATOM	3072 O ARG A 417	22.056 27.006 49.463 1.00 22.01	0
ATOM	3073 N PHE A 418	20.832 28.087 50.966 1.00 20.58	N
ATOM	3075 CA PHE A 418	21.497 27.534 52.085 1.00 20.58	C
ATOM	3077 CB PHE A 418	20.929 28.221 53.334 1.00 20.56	C
ATOM	3080 CG PHE A 418	21.459 27.688 54.603 1.00 21.90	C
ATOM	3081 CD1 PHE A 418	22.804 27.730 54.866 1.00 22.80	C
ATOM	3083 CE1 PHE A 418	23.301 27.249 56.078 1.00 24.14	C
ATOM	3085 CZ PHE A 418	22.445 26.710 57.020 1.00 22.87	C
ATOM	3087 CE2 PHE A 418	21.104 26.667 56.766 1.00 24.34	C
ATOM	3089 CD2 PHE A 418	20.607 27.160 55.557 1.00 24.46	C
ATOM	3091 C PHE A 418	21.344 25.993 52.093 1.00 19.91	C
ATOM	3092 O PHE A 418	22.341 25.280 52.142 1.00 19.56	0
ATOM	3093 N PRO A 419	20.113 25.482 52.036 1.00 18.94	N
ATOM	3094 CA PRO A 419	19.937 24.034 51.997 1.00 18.75	C
ATOM	3096 CB PRO A 419	18.399 23.841 52.040 1.00 18.34	C
ATOM	3099 CG PRO A 419	17.805 25.158 51.682 1.00 18.39	C
ATOM	3102 CD PRO A 419	18.813 26.194 52.076 1.00 18.47	C
ATOM	3105 C PRO A 419	20.570 23.371 50.779 1.00 18.68	C
ATOM	3106 O PRO A 419	21.038 22.275 50.925 1.00 17.29	O
ATOM	3107 N ARG A 420	20.604 24.001 49.618 1.00 19.60	N
ATOM	3109 CA ARG A 420	21.293 23.391 48.482 1.00 20.80	C
ATOM	3111 CB ARG A 420	21.115 24.220 47.208 1.00 21.78	C
ATOM	3114 CG ARG A 420	19.738 24.126 46.596 1.00 23.43	C
ATOM	3117 CD ARG A 420	19.688 24.371 45.091 1.00 27.38	C
ATOM	3120 NE ARG A 420	18.507 25.153 44.721 1.00 28.41	N
ATOM	3122 CZ ARG A 420	18.369 26.451 44.979 1.00 30.57	C
ATOM	3123 NH1 ARG A 420	19.334 27.127 45.584 1.00 31.62	N

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ATOM	3126	NH2 ARG A 420	17.267 27.088 44.623 1.00 32.90	N
ATOM	3129	C ARG A 420	22.776 23.220 48.789 1.00 21.08	C
ATOM	3130	O ARG A 420	23.384 22.202 48.436 1.00 21.37	O
ATOM	3131	N MET A 421	23.359 24.179 49.502 1.00 21.52	N
ATOM	3133	CA MET A 421	24.789 24.086 49.848 1.00 21.36	C
ATOM	3135	CB MET A 421	25.274 25.382 50.493 1.00 21.17	С
ATOM	3138	CG MET A 421	25.343 26.476 49.534 1.00 23.46	С
ATOM	3141	SD MET A 421	25.907 27.975 50.266 1.00 26.15	S
ATOM		CE MET A 421	27.451 27.516 51.009 1.00 26.23	С
ATOM	3146	C MET A 421	25.065 22.927 50.794 1.00 20.75	C
ATOM	3147	O MET A 421	25.982 22.134 50.582 1.00 18.82	O
ATOM	3148	N LEU A 422	24.303 22.882 51.878 1.00 21.18	N
ATOM		CA LEU A 422	24.394 21.749 52.801 1.00 21.92	С
ATOM	3152	CB LEU A 422	23.453 21.908 54.002 1.00 21.86	С
ATOM	3155	CG LEU A 422	23.727 23.166 54.819 1.00 23.07	C
ATOM		CD1 LEU A 422	22.756 23.247 55.989 1.00 24.63	С
ATOM	3161	CD2 LEU A 422	25.168 23.226 55.326 1.00 25.26	С
ATOM	3165	C LEU A 422	24.156 20.430 52.081 1.00 21.25	C
ATOM	3166	O LEU A 422	24.808 19.472 52.403 1.00 22.05	O
ATOM		N MET A 423	23.308 20.382 51.066 1.00 21.30	N
ATOM	3169	CA MET A 423	23.081 19.119 50.330 1.00 22.24	C
ATOM	3171	CB MET A 423	21.931 19.232 49.313 1.00 23.34	C
ATOM	3174	CG MET A 423	20.567 19.696 49.843 1.00 28.24	С
ATOM	3177	SD MET A 423	19.535 18.438 50.632 1.00 35.70	S
ATOM		CE MET A 423	20.458 18.220 52.061 1.00 33.45	С
ATOM	3182	C MET A 423	24.301 18.610 49.558 1.00 21.01	C
ATOM		O MET A 423	24.358 17.438 49.194 1.00 21.62	0
ATOM	3184	N LYS A 424	25.233 19.496 49.238 1.00 18.97	N
ATOM	3186	CA LYS A 424	26.509 19.095 48.662 1.00 17.89	С
ATOM	3188	CB LYS A 424	27.290 20.310 48.155 1.00 17.59	C
ATOM	3191	CG LYS A 424	26.594 21.018 46.988 1.00 18.56	С
ATOM	3194	CD LYS A 424	26.467 20.113 45.762 1.00 19.26	C
ATOM	3197	CE LYS A 424	25.693 20.769 44.631 1.00 20.40	С
ATOM	3200	NZ LYS A 424	25.020 19.777 43.751 1.00 21.19	N
ATOM	3204	C LYS A 424	27.372 18.290 49.622 1.00 16.82	С
ATOM	3205	O LYS A 424	28.179 17.473 49.186 1.00 16.71	O
ATOM	3206	N LEU A 425	27.217 18.529 50.923 1.00 15.99	N
ATOM	3208	CA LEU A 425	27.866 17.722 51.925 1.00 15.25	С
ATOM	3210	CB LEU A 425	27.639 18.323 53.316 1.00 15.87	С
ATOM	3213	CG LEU A 425	28.185 19.728 53.664 1.00 16.61	C
ATOM	3215	CD1 LEU A 425	27.714 20.115 55.047 1.00 17.81	C
ATOM	3219	CD2 LEU A 425	29.689 19.777 53.638 1.00 17.71	C
ATOM	3223	C LEU A 425	27.367 16.266 51.846 1.00 15.24	C
		O LEU A 425	28.117 15.346 52.119 1.00 15.24	0
ATOM	3225	N VAL A 426	26.103 16.064 51.470 1.00 14.71	N
ATOM	3227	CA VAL A 426	25.576 14.726 51.249 1.00 14.48	С
ATOM	3229	CB VAL A 426	24.041 14.703 50.975 1.00 13.91	С
ATOM	3231	CG1 VAL A 426	23.580 13.309 50.838 1.00 13.11	C

ATOM	3235 CG2 VAL A 426	23.228 15.408 52.101 1.00 14.22	C
ATOM	3239 C VAL A 426	26.263 14.040 50.077 1.00 15.09	C
ATOM	3240 O VAL A 426	26.597 12.852 50.171 1.00 14.93	0
ATOM	3241 N SER A 427	26.374 14.758 48.950 1.00 15.49	N
ATOM	3243 CA SER A 427	27.035 14.272 47.736 1.00 15.56	С
ATOM	3245 CB SER A 427	27.087 15.387 46.694 1.00 15.86	С
ATOM	3248 OG SER A 427	25.829 15.628 46.117 1.00 18.97	0
	3250 C SER A 427	28.483 13.883 48.043 1.00 15.75	C
ATOM	3251 O SER A 427	28.965 12.837 47.616 1.00 15.74	0
ATOM	3252 N LEU A 428	29.163 14.730 48.806 1.00 15.28	N
ATOM		30.518 14.463 49.183 1.00 16.34	С
	3256 CB LEU A 428		Č
ATOM	3259 CG LEU A 428		Ċ
ATOM		31.746 18.004 50.036 1.00 19.53	Č
	3265 CD2 LEU A 428		Č
ATOM	3269 C LEU A 428	30.699 13.199 50.022 1.00 16.91	c
ATOM	3270 O LEU A 428	31.729 12.536 49.880 1.00 16.87	Õ
ATOM	3271 N ARG A 429		N
	3273 CA ARG A 429		C
	3275 CA ARG A 429	28.730 11.374 52.612 1.00 18.11	C
			C
	3278 CG ARG A 429		C
	3281 CD ARG A 429		N
	3284 NE ARG A 429		C
ATOM	3286 CZ ARG A 429		
ATOM	3287 NH1 ARG A 429		N
ATOM	3290 NH2 ARG A 429		N
ATOM	3293 C ARG A 429	29.885 10.424 50.759 1.00 18.03	C
ATOM	3294 O ARG A 429		0
ATOM	3295 N THR A 430		N
ATOM	3297 CA THR A 430		C
ATOM	3299 CB THR A 430		C
ATOM		26.552 9.207 48.793 1.00 16.44	0
		27.647 8.457 46.895 1.00 16.72	С
		30.216 9.384 47.921 1.00 17.34	C
		30.728 8.343 47.576 1.00 18.01	O
	3309 N LEU A 431		N
		31.968 10.598 46.758 1.00 17.22	C
		32.272 12.015 46.336 1.00 16.74	C
		31.800 12.552 44.966 1.00 16.62	С
		31.263 11.522 44.010 1.00 15.12	C
ATOM	3322 CD2 LEU A 431	30.838 13.686 45.134 1.00 14.98	С
ATOM	3326 C LEU A 431		C
ATOM	3327 O LEU A 431	34.049 9.402 47.004 1.00 16.51	0
ATOM	3328 N SER A 432	33.108 10.131 48.863 1.00 17.72	N
ATOM	3330 CA SER A 432	34.080 9.531 49.726 1.00 18.63	С
ATOM	3332 CB SER A 432	33.796 9.946 51.149 1.00 18.84	С
ATOM	3335 OG SER A 432	34.982 9.889 51.872 1.00 20.35	0
ATOM	3337 C SER A 432	34.113 8.013 49.691 1.00 19.34	С

ATOM	3338 O SER A 432		O
ATOM	3339 N SER A 433		N
ATOM		32.830 5.935 49.475 1.00 19.25	C
ATOM		31.380 5.457 49.606 1.00 19.52	C
ATOM	3346 OG SER A 433	30.864 5.761 50.876 1.00 23.43	O
ATOM	3348 C SER A 433	33.315 5.497 48.112 1.00 18.21	C
ATOM	3349 O SER A 433	33.955 4.449 47.984 1.00 18.98	O
ATOM	3350 N VAL A 434	32.938 6.245 47.088 1.00 17.26	N
ATOM	3352 CA VAL A 434	33.393 5.976 45.732 1.00 17.49	C
ATOM	3354 CB VAL A 434	32.777 6.997 44.757 1.00 17.59	C
ATOM	3356 CG1 VAL A 434	33.461 6.954 43.419 1.00 17.34	C
		31.222 6.725 44.582 1.00 17.82	C
		34.947 5.981 45.668 1.00 17.71	C
		35.566 5.123 45.023 1.00 17.05	0
ATOM	3366 N HIS A 435	35.548 6.927 46.376 1.00 17.43	N
ATOM		36.977 7.015 46.504 1.00 18.66	С
		37.352 8.325 47.193 1.00 18.49	C
	3373 CG HIS A 435		С
		39.163 8.437 48.933 1.00 16.02	N
		40.478 8.526 49.004 1.00 17.34	С
		40.968 8.542 47.775 1.00 16.72	N
ATOM		39.930 8.488 46.882 1.00 17.51	C
ATOM	3382 C HIS A 435	37.608 5.813 47.245 1.00 19.59	С
ATOM		38.643 5.325 46.816 1.00 19.38	0
		37.001 5.349 48.339 1.00 20.61	N
		37.480 4.150 49.021 1.00 21.50	C
		36.635 3.807 50.249 1.00 21.87	č
ATOM		36.836 4.754 51.285 1.00 24.47	Ö
	3393 C SER A 436		c
ATOM	3394 O SER A 436		Ö
		36.402 2.909 47.225 1.00 21.73	
		36.338 1.831 46.229 1.00 22.18	
		34.969 1.748 45.500 1.00 22.15	
	3402 CG GLU A 437	33.758 1.448 46.410 1.00 24.83	Č
	3405 CD GLU A 437	32.416 2.022 45.883 1.00 27.98	Č
	3406 OE1 GLU A 437		Ö
	3407 OE2 GLU A 437		Ö
	3408 C GLU A 437	37.484 1.970 45.215 1.00 21.66	c
	3409 O GLU A 437	38.007 0.954 44.753 1.00 21.07	Ö
	3410 N GLN A 438	37.872 3.205 44.870 1.00 21.22	N
	3412 CA GLN A 438	38.960 3.418 43.898 1.00 21.53	C
	3414 CB GLN A 438	38.925 4.838 43.308 1.00 21.92	Č
	3417 CG GLN A 438	40.182 5.303 42.532 1.00 22.14	C
	3417 CO GLN A 438 3420 CD GLN A 438	40.414 4.542 41.242 1.00 22.72	C
	3421 OE1 GLN A 438		0
	3421 OE1 GLN A 438 3422 NE2 GLN A 438		N
	3425 C GLN A 438	40.309 3.088 44.552 1.00 21.78	C
ATUM	3426 O GLN A 438	41.221 2.624 43.892 1.00 21.15	О

ATOM	3427 N VAL A 439	40.406 3.287 45.863 1.00 22.24	N
ATOM	3429 CA VAL A 439	41.626 2.983 46.581 1.00 22.93	C
ATOM	3431 CB VAL A 439	41.617 3.590 47.995 1.00 22.83	C
ATOM	3433 CG1 VAL A 439	42.726 2.982 48.850 1.00 22.44	C
ATOM	3437 CG2 VAL A 439	41.782 5.070 47.915 1.00 23.07	С
ATOM	3441 C VAL A 439	41.797 1.472 46.662 1.00 23.19	С
ATOM	3442 O VAL A 439	42.904 0.957 46.531 1.00 23.61	0
ATOM	3443 N PHE A 440	40.686 0.782 46.887 1.00 23.59	N
ATOM	3445 CA PHE A 440	40.632 -0.679 46.948 1.00 23.72	C
ATOM	3447 CB PHE A 440	39.216 -1.108 47.359 1.00 23.83	C
ATOM	3450 CG PHE A 440	39.072 -2.575 47.643 1.00 26.10	C
ATOM	3451 CD1 PHE A 440	39.203 -3.059 48.944 1.00 27.31	C
ATOM	3453 CE1 PHE A 440	39.080 -4.425 49.208 1.00 28.42	C
ATOM	3455 CZ PHE A 440	38.812 -5.337 48.155 1.00 28.49	C
ATOM	3457 CE2 PHE A 440	38.676 -4.863 46.855 1.00 27.80	C
ATOM	3459 CD2 PHE A 440	38.798 -3.482 46.603 1.00 27.54	С
ATOM	3461 C PHE A 440	41.031 -1.261 45.592 1.00 23.41	C
ATOM	3462 O PHE A 440	41.835 -2.175 45.534 1.00 23.32	0
ATOM	3463 N ALA A 441	40.503 -0.700 44.507 1.00 23.68	N
ATOM	3465 CA ALA A 441	40.850 -1.132 43.144 1.00 24.12	C
ATOM	3467 CB ALA A 441	39.945 -0.475 42.110 1.00 23.79	C
ATOM	3471 C ALA A 441	42.320 -0.901 42.762 1.00 24.90	С
ATOM	3472 O ALA A 441	42.830 -1.583 41.875 1.00 24.76	0
ATOM	3473 N LEU A 442	42.985 0.062 43.408 1.00 25.88	N
ATOM	3475 CA LEU A 442	44.424 0.258 43.232 1.00 26.68	C
ATOM	3477 CB LEU A 442	44.873 1.619 43.763 1.00 26.33	C
ATOM	3480 CG LEU A 442	44.327 2.844 43.037 1.00 26.21	C
ATOM	3482 CD1 LEU A 442	44.704 4.101 43.802 1.00 25.44	С
ATOM	3486 CD2 LEU A 442	44.812 2.906 41.604 1.00 25.65	С
ATOM	3490 C LEU A 442	45.206 -0.852 43.922 1.00 27.53	C
ATOM	3491 O LEU A 442	46.138 -1.376 43.354 1.00 27.92	0
ATOM	3492 N ARG A 443	44.801 -1.200 45.139 1.00 29.13	N
ATOM	3494 CA ARG A 443	45.410 -2.278 45.937 1.00 30.54	С
ATOM	3496 CB ARG A 443	44.631 -2.482 47.251 1.00 31.28	C
ATOM	3499 CG ARG A 443	45.319 -1.941 48.495 1.00 34.06	С
ATOM	3502 CD ARG A 443	46.103 -3.002 49.305 1.00 37.28	C
ATOM	3505 NE ARG A 443	45.886 -2.830 50.750 1.00 39.82	N
ATOM	3507 CZ ARG A 443	45.823 -3.816 51.652 1.00 41.09	C
ATOM	3508 NH1 ARG A 443	45.961 -5.094 51.303 1.00 40.52	N
ATOM	3511 NH2 ARG A 443	45.610 -3.505 52.932 1.00 42.23	N
ATOM	3514 C ARG A 443	45.489 -3.617 45.211 1.00 30.54	C
	3515 O ARG A 443	46.546 -4.267 45.211 1.00 30.72	О
	3516 N LEU A 444	44.389 -4.038 44.596 1.00 30.38	N
	3518 CA LEU A 444	44.412 -5.305 43.840 1.00 30.47	C
	3520 CB LEU A 444	43.007 -5.927 43.708 1.00 30.45	C
	3523 CG LEU A 444	41.844 -5.080 43.182 1.00 30.54	C
	3525 CD1 LEU A 444	41.765 -5.168 41.674 1.00 30.70	C
ATOM	3529 CD2 LEU A 444	40.541 -5.535 43.811 1.00 31.11	C

ATOM	3533 C LEU A 444	45.100 -5.161 42.472 1.00 30.14	С
ATOM	3534 O LEU A 444	45.595 -6.144 41.931 1.00 30.25	Ο
ATOM	3535 N GLN A 445	45.160 -3.937 41.941 1.00 29.84	N
ATOM	3537 CA GLN A 445	45.814 -3.652 40.651 1.00 29.80	С
ATOM	3539 CB GLN A 445	45.078 -2.484 39.986 1.00 30.05	C
ATOM	3542 CG GLN A 445	45.441 -2.111 38.547 1.00 30.96	С
ATOM	3545 CD GLN A 445	44.927 -0.707 38.194 1.00 33.36	С
ATOM	3546 OE1 GLN A 445	45.652 0.115 37.613 1.00 35.36	0
ATOM	3547 NE2 GLN A 445	43.686 -0.426 38.575 1.00 33.42	N
ATOM	3550 C GLN A 445	47.331 -3.356 40.801 1.00 29.48	C
ATOM	3551 O GLN A 445	47.991 -2.911 39.847 1.00 29.37	О
ATOM	3552 N ASP A 446	47.883 -3.632 41.988 1.00 28.99	N
ATOM	3554 CA ASP A 446	49.315 -3.451 42.273 1.00 28.52	C
ATOM	3556 CB ASP A 446	50.162 -4.386 41.389 1.00 28.74	C
ATOM	3559 CG ASP A 446	50.582 -5.653 42.115 1.00 30.00	C
ATOM	3560 OD1 ASP A 446	51.055 -5.551 43.270 1.00 31.05	O
ATOM	3561 OD2 ASP A 446	50.473 -6.794 41.603 1.00 31.36	O
ATOM	3562 C ASP A 446	49.802 -1.995 42.130 1.00 27.48	C
ATOM	3563 O ASP A 446	50.983 -1.755 41.850 1.00 27.27	Ο
ATOM	3564 N LYS A 447	48.896 -1.035 42.317 1.00 25.97	N
ATOM	3566 CA LYS A 447	49.236 0.379 42.194 1.00 25.34	C
ATOM	3568 CB LYS A 447	48.236 1.112 41.308 1.00 25.56	С
ATOM	3571 CG LYS A 447	48.791 1.476 39.941 1.00 27.42	C
ATOM	3574 CD LYS A 447	47.937 2.541 39.234 1.00 29.14	С
ATOM	3577 CE LYS A 447	48.324 2.703 37.756 1.00 29.77	С
ATOM	3580 NZ LYS A 447	49.794 2.489 37.525 1.00 29.95	N
ATOM	3584 C LYS A 447	49.281 1.012 43.574 1.00 24.20	С
ATOM	3585 O LYS A 447	48.264 1.073 44.273 1.00 24.40	Ο
ATOM	3586 N LYS A 448	50.465 1.479 43.961 1.00 22.65	N
ATOM	3588 CA LYS A 448	50.708 1.963 45.322 1.00 21.68	C
ATOM	3590 CB LYS A 448	52.132 1.609 45.769 1.00 22.05	C
ATOM	3593 CG LYS A 448	52.363 0.108 45.985 1.00 23.85	C
ATOM	3596 CD LYS A 448	51.620 -0.402 47.242 1.00 25.90	C
ATOM	3599 CE LYS A 448	51.029 -1.793 47.032 1.00 27.29	C
ATOM	3602 NZ LYS A 448	52.111 -2.843 46.988 1.00 27.04	N
ATOM	3606 C LYS A 448	50.500 3.469 45.466 1.00 19.63	С
ATOM	3607 O LYS A 448	50.992 4.256 44.662 1.00 19.17	Ο
ATOM	3608 N LEU A 449	49.763 3.857 46.499 1.00 17.42	N
ATOM	3610 CA LEU A 449	49.747 5.246 46.931 1.00 16.08	С
ATOM	3612 CB LEU A 449	48.709 5.470 48.016 1.00 15.80	C
ATOM	3615 CG LEU A 449	47.276 5.187 47.620 1.00 15.59	C
ATOM	3617 CD1 LEU A 449	46.393 5.462 48.794 1.00 15.93	C
ATOM	3621 CD2 LEU A 449	46.889 6.042 46.441 1.00 16.59	C
ATOM	3625 C LEU A 449	51.119 5.609 47.497 1.00 14.86	C
ATOM	3626 O LEU A 449	51.716 4.819 48.213 1.00 14.21	0
ATOM	3627 N PRO A 450	51.602 6.815 47.207 1.00 13.64	N
ATOM	3628 CA PRO A 450	52.857 7.287 47.801 1.00 12.45	С
ATOM	3630 CB PRO A 450	53.097 8.619 47.106 1.00 12.02	C

ATOM	3633 CG PRO A 450	51.794 9.075 46.715 1.00 12.24	С
ATOM	3636 CD PRO A 450	50.968 7.849 46.361 1.00 13.38	C
ATOM	3639 C PRO A 450	52.651 7.451 49.305 1.00 11.44	С
ATOM	3640 O PRO A 450	51.523 7.579 49.705 1.00 10.71	0
ATOM	3641 N PRO A 451	53.691 7.370 50.114 1.00 11.43	N
ATOM	3642 CA PRO A 451	53.554 7.354 51.579 1.00 11.97	С
ATOM	3644 CB PRO A 451	55.004 7.498 52.056 1.00 11.99	С
ATOM	3647 CG PRO A 451	55.826 6.908 50.950 1.00 11.22	С
ATOM	3650 CD PRO A 451	55.096 7.221 49.693 1.00 11.32	С
	3653 C PRO A 451	52.663 8.432 52.220 1.00 13.16	С
ATOM	3654 O PRO A 451		0
ATOM	3655 N LEU A 452		N
ATOM		51.818 10.694 52.366 1.00 14.82	С
ATOM		52.222 12.127 51.935 1.00 14.59	С
ATOM		53.581 12.577 52.524 1.00 13.96	C
ATOM	3664 CD1 LEU A 452	54.136 13.827 51.798 1.00 12.67	C
ATOM	3668 CD2 LEU A 452	53.460 12.812 54.022 1.00 12.97	Č
ATOM	3672 C LEU A 452	50.339 10.461 52.119 1.00 15.67	C
ATOM	3673 O LEU A 452		Ö
ATOM	3674 N LEU A 453	49.980 9.984 50.940 1.00 16.51	N
ATOM	3676 CA LEU A 453	48.589 9.584 50.700 1.00 16.83	C
ATOM		48.316 9.473 49.200 1.00 16.80	č
ATOM	3681 CG LEU A 453		C
ATOM	3683 CD1 LEU A 453	48.178 10.622 47.008 1.00 15.48	Č
ATOM	3687 CD2 LEU A 453	47.607 11.881 49.149 1.00 15.08	Č
ATOM	3691 C LEU A 453	48.255 8.252 51.383 1.00 16.93	c
ATOM	3692 O LEUA 453	47.164 8.076 51.892 1.00 15.52	Ö
ATOM	3693 N SER A 454	49.218 7.338 51.433 1.00 17.80	N
ATOM	3695 CA SER A 454		Ċ
ATOM	3697 CB SER A 454	50.234 5.177 52.002 1.00 18.79	Č
ATOM	3700 OG SER A 454	50.044 3.985 52.760 1.00 21.39	ŏ
ATOM	3702 C SER A 454	48.583 6.204 53.539 1.00 18.91	C
	3703 O SER A 454	47.734 5.448 53.989 1.00 18.81	Ö
	3704 N GLU A 455	49.181 7.165 54.252 1.00 19.47	N
	3706 CA GLU A 455	48.911 7.434 55.674 1.00 20.61	C
	3708 CB GLU A 455	49.792 8.600 56.226 1.00 20.80	C
	3711 CG GLU A 455		C
	3714 CD GLU A 455		C
	3714 CD GLU A 455	53.185 9.162 57.768 1.00 18.79	0
	3716 OE2 GLU A 455		0
	3717 C GLU A 455	47.455 7.813 55.869 1.00 21.13	С
		46.915 7.648 56.942 1.00 20.97	
	3718 O GLUA 455	46.842 8.380 54.842 1.00 22.30	O N
	3719 N ILE A 456	45.468 8.851 54.948 1.00 22.36	C
	3721 CA ILE A 456		
	3723 CB ILE A 456	45.211 10.156 54.107 1.00 23.51	C
	3725 CG1 ILE A 456	46.271 11.223 54.348 1.00 24.04	C
	3728 CD1 ILE A 456	46.137 12.411 53.377 1.00 24.87	C
ATOM	3732 CG2 ILE A 456	43.862 10.788 54.457 1.00 23.80	C

ATOM	3736	C ILE A 456	44.460 7.772 54.552 1.00 23.95	C
ATOM	3737		43.472 7.588 55.255 1.00 24.60	O
ATOM		N TRP A 457	44.715 7.054 53.460 1.00 24.49	N
		CA TRP A 457	43.686 6.274 52.788 1.00 25.10	С
ATOM		CB TRP A 457	43.581 6.757 51.352 1.00 24.61	С
		CG TRP A 457	43.172 8.173 51.286 1.00 24.27	Č
		CD1 TRP A 457	42.382 8.843 52.173 1.00 23.43	Č
ATOM		NE1 TRP A 457	42.225 10.146 51.774 1.00 23.31	N
		CE2 TRP A 457		Ċ
			43.513 9.113 50.268 1.00 24.59	č
		CE3 TRP A 457	44.274 9.046 49.096 1.00 25.78	C
			44.408 10.189 48.323 1.00 26.73	C
		CZ3 TRP A 457		C
			43.796 11.396 48.698 1.00 24.85	C
		CZ2 TRP A 457	43.053 11.489 49.833 1.00 24.21	_
		C TRP A 457	43.811 4.752 52.805 1.00 26.89	C
ATOM		O TRP A 457	42.804 4.056 52.578 1.00 26.84	0
		N ASP A 458	45.011 4.216 53.039 1.00 28.36	N
		CA ASP A 458	45.153 2.759 53.106 1.00 29.97	C
		CB ASP A 458	46.605 2.290 52.851 1.00 29.50	C
		CG ASP A 458		C
		OD1 ASP A 458	46.194 2.287 50.471 1.00 25.80	О
ATOM	3771	OD2 ASP A 458	48.218 2.709 51.066 1.00 28.62	O
ATOM	3772	C ASP A 458	44.668 2.262 54.471 1.00 31.78	C
ATOM	3773	O ASP A 458	44.698 3.026 55.444 1.00 31.76	O
ATOM	3774	N VAL A 459	44.229 0.994 54.538 1.00 33.72	N
ATOM	3776	CA VAL A 459	43.925 0.350 55.829 1.00 35.18	C
ATOM	3778	CB VAL A 459	42.776 -0.738 55.764 1.00 35.47	C
			41.402 -0.065 55.696 1.00 36.37	C
ATOM			42.954 -1.714 54.600 1.00 35.60	C
ATOM		C VAL A 459	45.207 -0.240 56.430 1.00 36.19	C
ATOM			46.053 -0.769 55.701 1.00 36.50	O
			45.338 -0.119 57.759 1.00 37.07	N
			46.520 -0.567 58.513 1.00 37.34	С
ATOM		CB ALA A 460	46.663 -2.107 58.448 1.00 37.39	С
		C ALA A 460	47.805 0.130 58.048 1.00 37.43	C
		O ALA A 460	47.797 1.331 57.735 1.00 38.01	Ō
		O37 GW3 A 500	45.928 22.483 41.966 1.00 29.37	ŏ
		C35 GW3 A 500	46.006 22.922 43.117 1.00 27.82	Č
		O36 GW3 A 500		Ö
		C34 GW3 A 500	45.991 22.048 44.336 1.00 25.98	C
		C34 GW3 A 500	45.090 20.843 44.120 1.00 24.26	C
ATOM			45.577 19.636 43.605 1.00 22.94	C
ATOM		C33 GW3 A 500	43.729 20.985 44.385 1.00 22.24	C
		C31 GW3 A 500		
ATOM		C30 GW3 A 500	42.848 19.935 44.145 1.00 23.11	C
		C29 GW3 A 500		C
		C28 GW3 A 500		C
		O27 GW3 A 500		0
ATOM	3817	C26 GW3 A 500	44.617 16.843 41.708 1.00 24.90	C

ATOM	3820 C25	GW3 A 500	44.920 15.377 41.703 1.00 24.64	C
		GW3 A 500	44.100 14.679 40.630 1.00 24.72	С
ATOM		GW3 A 500	43.591 13.396 41.119 1.00 23.09	N
ATOM		GW3 A 500	44.504 12.521 41.826 1.00 27.47	С
		GW3 A 500	43.883 11.827 42.999 1.00 32.67	С
ATOM		GW3 A 500	44.086 10.381 43.132 1.00 37.17	С
ATOM		GW3 A 500		CL
		GW3 A 500	43.138 12.498 43.950 1.00 33.22	C
ATOM		GW3 A 500	42.580 11.795 45.015 1.00 34.93	Č
ATOM		GW3 A 500	42.742 10.415 45.175 1.00 37.10	Č
		GW3 A 500	43.479 9.662 44.266 1.00 39.44	Č
		GW3 A 500	43.672 8.164 44.368 1.00 41.02	č
		GW3 A 500	43.097 7.617 43.292 1.00 40.05	F
		GW3 A 500	43.146 7.681 45.481 1.00 42.09	F
		GW3 A 500 GW3 A 500	44.958 7.854 44.374 1.00 42.72	F
		GW3 A 500 GW3 A 500	42.341 12.851 40.595 1.00 20.89	c
			41.159 13.837 40.585 1.00 18.51	C
		GW3 A 500	40.117 13.455 39.587 1.00 17.88	C
		GW3 A 500		c
		GW3 A 500		C
		GW3 A 500		C
		GW3 A 500		C
		GW3 A 500		
ATOM		GW3 A 500		C
ATOM		GW3 A 500		C
ATOM		GW3 A 500		C
ATOM		GW3 A 500		C
ATOM		GW3 A 500		C
ATOM		GW3 A 500		C
		GW3 A 500		C
		IOH A 501		0
ATOM				C
	3875 C3 I			C
				C
		EU B 220		1
	3885 CA			C
	3887 CB			C
	3890 CG			C
		LEU B 220	2.525 23.974 57.322 1.00 22.13	C
		LEU B 220		C
	3900 C L			2
ATOM	3901 O I	LEU B 220)
ATOM	3904 N T	THR B 221	1.161 27.322 53.035 1.00 19.13	1
ATOM	3906 CA	THR B 221	0.118 27.358 52.008 1.00 18.93	C
	3908 CB		0.721 27.418 50.597 1.00 19.02	C
		THR B 221		0
ATOM	3912 CG2	THR B 221		C
	3916 C T			C
ATOM	3917 O T	THR B 221	-0.438 25.144 52.736 1.00 19.29	O

ATOM	3918 N ALA B 222	-1.940 26.185 51.461 1.00 19.97	N
ATOM		-2.853 25.055 51.450 1.00 20.36	C
ATOM		-4.114 25.374 50.664 1.00 20.25	C
ATOM	3926 C ALA B 222	-2.142 23.870 50.844 1.00 20.59	C
ATOM	3927 O ALA B 222	-2.277 22.766 51.330 1.00 20.50	Ö
ATOM	3928 N ALA B 223	-1.358 24.128 49.803 1.00 20.84	N
ATOM	3930 CA ALA B 223		C
ATOM	3932 CB ALA B 223	-0.020 23.660 47.810 1.00 21.51	Č
ATOM	3936 C ALA B 223		C
ATOM	3937 O ALA B 223	0.601 21.211 49.747 1.00 21.87	Ö
ATOM	3938 N GLN B 224		N
ATOM		2.102 22.585 51.614 1.00 20.66	C
ATOM		2.996 23.683 52.217 1.00 20.60	č
ATOM		3.888 24.368 51.165 1.00 21.61	C
ATOM		4.685 25.571 51.698 1.00 20.35	Č
ATOM		4.233 26.288 52.592 1.00 20.73	o
ATOM		5.874 25.774 51.147 1.00 18.48	N
ATOM	3953 C GLN B 224		C
ATOM	3954 O GLN B 224	1.925 20.722 53.076 1.00 20.39	Ö
ATOM	3955 N GLUB 225		N
ATOM	3957 CA GLU B 225		C
ATOM	3959 CB GLU B 225	-1.603 22.355 54.810 1.00 22.26	C
ATOM	3962 CG GLU B 225		C
ATOM	3965 CD GLU B 225		C
		-3.390 24.145 56.006 1.00 30.04	0
ATOM	3967 OE2 GLU B 225	-1.856 25.452 56.894 1.00 32.32	O
ATOM	3968 C GLU B 225		C
ATOM	3969 O GLUB 225		0
ATOM	3970 N LEUB 226		N
ATOM		-2.087 19.082 51.680 1.00 21.40	C
ATOM			C
ATOM	3974 CB LEU B 226 3977 CG LEU B 226	-2.688 19.425 50.307 1.00 20.97 -3.452 18.233 49.725 1.00 21.69	C
ATOM		-4.473 17.665 50.726 1.00 20.99	
			C
	3987 C LEUB 226	-4.165 18.624 48.450 1.00 23.12 -0.966 18.076 51.485 1.00 21.71	C
			C
	3988 O LEUB 226	-1.132 16.897 51.756 1.00 22.24	0
	3989 N MET B 227 3991 CA MET B 227	0.177 18.564 51.031 1.00 21.92	N
			C
		2.477 18.599 50.227 1.00 23.18 3.889 18.099 50.497 1.00 27.64	C
		5.252 19.110 49.731 1.00 35.04	C
			S
		4.355 20.407 48.801 1.00 35.00	C
	4004 C MET B 227	1.775 16.978 52.062 1.00 21.43	C
	4005 O MET B 227 4006 N ILE B 228	2.044 15.787 52.001 1.00 20.48	0 N
		1.837 17.667 53.197 1.00 21.11	N
	4008 CA ILE B 228	2.226 17.033 54.454 1.00 20.70	C
	4010 CB ILE B 228	2.454 18.094 55.552 1.00 20.51	C
ATUM	4012 CG1 ILE B 228	3.753 18.863 55.279 1.00 21.99	С

ATOM	4015	CD1 ILE B 228	3.752 20.289 55.826 1.00 21.87	С
			2.541 17.450 56.925 1.00 19.69	C
ATOM		C ILE B 228	1.155 16.000 54.882 1.00 20.68	С
ATOM	4024		1.489 14.904 55.320 1.00 20.06	0
		N GLN B 229	-0.120 16.359 54.753 1.00 20.09	N
ATOM			-1.194 15.446 55.120 1.00 20.97	С
			-2.574 16.126 54.993 1.00 20.90	C
			-2.829 17.199 56.034 1.00 22.03	С
			-3.907 18.235 55.593 1.00 27.82	C
			-4.472 18.124 54.487 1.00 32.18	O
			-4.176 19.235 56.444 1.00 24.45	N
		C GLN B 229	-1.126 14.146 54.299 1.00 20.36	С
		O GLN B 229	-1.277 13.080 54.870 1.00 20.51	0
		N GLN B 230	-0.836 14.247 52.998 1.00 19.95	N
			-0.678 13.092 52.094 1.00 19.76	С
		CB GLN B 230	-0.423 13.577 50.638 1.00 19.71	С
		CG GLN B 230	-1.657 14.211 49.988 1.00 20.96	С
		CD GLN B 230		С
		OE1 GLN B 230	-2.232 14.269 47.640 1.00 28.47	О
		NE2 GLN B 230	-0.596 15.686 48.323 1.00 23.65	N
-		C GLN B 230	0.439 12.125 52.530 1.00 19.30	C
		O GLN B 230		O
		N LEU B 231		N
		CA LEU B 231	2.728 11.909 53.291 1.00 17.41	С
ATOM		CB LEU B 231		C
		CG LEU B 231		C
		CD1 LEU B 231	5.667 14.324 52.595 1.00 16.14	C
ATOM	4072	CD2 LEU B 231	4.849 12.533 51.189 1.00 17.07	C
ATOM	4076	C LEU B 231	2.491 11.257 54.610 1.00 17.15	С
ATOM	4077	O LEU B 231	2.894 10.119 54.802 1.00 16.91	0
ATOM	4078	N VAL B 232	1.890 12.003 55.531 1.00 16.61	N
ATOM	4080	CA VAL B 232	1.615 11.498 56.860 1.00 16.91	C
ATOM	4082	CB VAL B 232	1.132 12.631 57.800 1.00 16.52	C
ATOM	4084	CG1 VAL B 232	0.611 12.073 59.141 1.00 15.82	С
ATOM	4088	CG2 VAL B 232	2.270 13.587 58.082 1.00 17.23	С
ATOM	4092	C VAL B 232	0.579 10.348 56.799 1.00 17.56	C
ATOM	4093	O VAL B 232	0.771 9.307 57.429 1.00 17.67	O
ATOM	4094	N ALA B 233	-0.505 10.557 56.048 1.00 17.49	N
ATOM	4096	CA ALA B 233	-1.572 9.562 55.883 1.00 17.46	C
ATOM	4098	CB ALA B 233	-2.721 10.162 55.063 1.00 16.78	C
ATOM	4102	C ALA B 233	-1.045 8.277 55.203 1.00 18.02	C
ATOM	4103	O ALA B 233	-1.456 7.197 55.546 1.00 18.54	Ο
ATOM	4104	N ALA B 234	-0.128 8.412 54.251 1.00 18.75	N
ATOM	4106	CA ALA B 234	0.418 7.274 53.515 1.00 19.67	C
ATOM	4108	CB ALA B 234	1.181 7.751 52.301 1.00 19.31	С
ATOM	4112	C ALA B 234	1.348 6.486 54.439 1.00 20.55	C
ATOM	4113	O ALA B 234		Ο
ATOM	4114	N GLN B 235	2.096 7.204 55.225 1.00 21.28	N

ATOM	4116 CA GLN B 235	2.897 6.606 56.244 1.00 22.64	C
ATOM	4118 CB GLN B 235	3.687 7.686 56.962 1.00 23.12	C
ATOM	4121 CG GLN B 235	4.873 7.175 57.721 1.00 26.16	С
ATOM	4124 CD GLN B 235	6.154 7.982 57.483 1.00 27.08	С
ATOM	4125 OE1 GLN B 235	6.198 9.190 57.778 1.00 25.27	0
	4126 NE2 GLN B 235	7.225 7.288 57.050 1.00 25.11	N
ATOM	4129 C GLN B 235	2.029 5.838 57.215 1.00 23.05	С
ATOM	4130 O GLN B 235		O
ATOM		0.886 6.400 57.590 1.00 22.82	N
ATOM		0.026 5.735 58.538 1.00 23.20	C
ATOM		-1.076 6.680 59.060 1.00 23.47	C
_	4138 CG LEU B 236	-1.770 6.162 60.325 1.00 24.46	C
		-0.990 6.692 61.552 1.00 25.96	С
	4144 CD2 LEU B 236	-3.250 6.563 60.375 1.00 24.55	С
ATOM	4148 C LEU B 236	-0.597 4.450 57.954 1.00 22.92	С
ATOM		-0.760 3.489 58.692 1.00 22.71	0
	4150 N GLN B 237	-0.947 4.434 56.666 1.00 22.75	N
ATOM		-1.416 3.199 56.016 1.00 23.39	С
ATOM		-1.772 3.419 54.546 1.00 23.78	С
	4157 CG GLN B 237		C
ATOM		-3.594 3.668 52.779 1.00 28.07	C
ATOM		-2.728 3.480 51.913 1.00 31.17	O
ATOM	4162 NE2 GLN B 237	-4.901 3.668 52.504 1.00 26.41	N
	4165 C GLN B 237	-0.301 2.154 56.082 1.00 23.26	С
ATOM	4166 O GLN B 237	-0.547 0.993 56.381 1.00 22.61	0
ATOM	4167 N CYS B 238	0.936 2.576 55.819 1.00 23.37	N
ATOM	4169 CA CYS B 238	2.079 1.666 55.937 1.00 23.62	С
ATOM	4171 CB CYS B 238	3.377 2.350 55.486 1.00 23.38	С
ATOM	4174 SG CYS B 238	3.308 2.714 53.694 1.00 26.27	S
ATOM	4175 C CYS B 238	2.187 1.057 57.353 1.00 23.48	C
ATOM	4176 O CYS B 238	2.440 -0.130 57.474 1.00 22.84	О
ATOM	4177 N ASN B 239	1.959 1.856 58.402 1.00 23.18	N
ATOM	4179 CA ASN B 239	2.044 1.368 59.776 1.00 23.64	C
ATOM	4181 CB ASN B 239	1.873 2.490 60.821 1.00 23.36	C
ATOM	4184 CG ASN B 239	2.940 3.576 60.740 1.00 23.70	C
ATOM	4185 OD1 ASN B 239	4.021 3.372 60.189 1.00 26.52	O
ATOM	4186 ND2 ASN B 239	2.632 4.745 61.293 1.00 18.94	N
ATOM	4189 C ASN B 239	0.948 0.334 60.019 1.00 24.56	C
ATOM	4190 O ASN B 239	1.210 -0.709 60.599 1.00 24.51	O
ATOM	4191 N LYS B 240	-0.281 0.633 59.593 1.00 25.29	N
ATOM	4193 CA LYS B 240	-1.400 -0.308 59.742 1.00 26.55	C
	4195 CB LYS B 240	-2.705 0.280 59.158 1.00 27.30	С
	4198 CG LYS B 240	-3.245 1.536 59.894 1.00 29.04	С
	4201 CD LYS B 240	-4.709 1.862 59.503 1.00 32.61	С
	4204 CE LYS B 240	-4.870 2.417 58.053 1.00 34.49	C
	4207 NZ LYS B 240	-4.339 3.837 57.829 1.00 34.32	N
	4211 C LYS B 240	-1.090 -1.680 59.104 1.00 26.09	C
ATOM	4212 O LYS B 240	-1.430 -2.707 59.653 1.00 26.05	Ο

ATOM	4213	N ARG B 241	-0.396 -1.681 57.975 1.00 26.26	N
ATOM	4215	CA ARG B 241	0.019 -2.911 57.288 1.00 26.59	С
ATOM	4217	CB ARG B 241	0.645 -2.542 55.944 1.00 27.45	C.
ATOM	4220	CG ARG B 241	0.621 -3.619 54.921 1.00 30.60	C
ATOM	4223	CD ARG B 241	1.824 -3.649 54.026 1.00 35.87	С
ATOM	4226	NE ARG B 241	2.384 -5.002 53.975 1.00 41.15	N
			3.592 -5.301 53.511 1.00 43.64	С
			4.386 -4.361 53.019 1.00 43.07	N
		NH2 ARG B 241		N
			1.019 -3.733 58.111 1.00 25.70	C
		O ARG B 241		0
		N SER B 242		N
			2.947 -3.599 59.646 1.00 24.42	C
			3.849 -2.472 60.199 1.00 24.32	Č
			4.828 -2.071 59.273 1.00 23.14	Ō
		C SER B 242		C
		O SER B 242		0
			1.179 -3.633 61.339 1.00 24.47	N
-			0.472 -4.161 62.511 1.00 25.38	С
		CB PHE B 243	-0.588 -3.201 63.095 1.00 25.27	С
			-0.056 -1.848 63.543 1.00 26.76	C
			-0.953 -0.824 63.854 1.00 28.25	С
		CE1 PHE B 243		С
		CZ PHE B 243		С
			1.771 -0.317 64.058 1.00 27.74	С
			1.312 -1.580 63.654 1.00 27.96	С
			-0.211 -5.443 62.070 1.00 25.24	С
ATOM	4267	O PHE B 243	-0.099 -6.440 62.748 1.00 25.43	O
ATOM	4268	N SER B 244	-0.878 -5.392 60.916 1.00 25.73	N
ATOM	4270	CA SER B 244	-1.553 -6.548 60.280 1.00 26.24	С
ATOM	4272	CB SER B 244	-2.224 -6.123 58.967 1.00 26.59	С
ATOM	4275	OG SER B 244	-3.539 -5.700 59.225 1.00 28.45	0
ATOM	4277	C SER B 244	-0.670 -7.738 59.934 1.00 25.30	С
			-1.139 -8.852 59.904 1.00 26.13	O
ATOM	4279	N ASP B 245	0.593 -7.498 59.658 1.00 24.75	N
ATOM	4281	CA ASP B 245	1.488 -8.568 59.255 1.00 24.52	С
ATOM	4283	CB ASP B 245	2.363 -8.103 58.062 1.00 24.71	С
ATOM	4286	CG ASP B 245	1.541 -7.759 56.829 1.00 25.49	С
ATOM	4287	OD1 ASP B 245	0.384 -8.228 56.688 1.00 28.15	О
ATOM	4288	OD2 ASP B 245	1.975 -7.013 55.941 1.00 30.97	O
ATOM	4289	C ASP B 245	2.371 -9.044 60.410 1.00 23.74	С
ATOM	4290	O ASP B 245	3.103 -10.035 60.246 1.00 23.57	O
ATOM	4291	N GLN B 246	2.321 -8.354 61.560 1.00 22.64	N
ATOM	4293	CA GLN B 246	3.081 -8.802 62.730 1.00 21.91	C
ATOM	4295	CB GLN B 246	2.906 -7.887 63.958 1.00 21.50	С
ATOM	4298	CG GLN B 246	3.515 -8.497 65.234 1.00 19.68	C
ATOM	4301	CD GLN B 246	3.629 -7.541 66.413 1.00 18.64	С
ATOM	4302	OE1 GLN B 246	4.209 -6.458 66.312 1.00 15.04	0

ATOM	4303 NE2 GLN B 246	3.123 -7.972 67.550 1.00 18.09	N
ATOM	4306 C GLN B 246	2.759 -10.257 63.072 1.00 22.12	С
ATOM	4307 O GLN B 246	3.675 -11.022 63.322 1.00 22.39	O
ATOM	4308 N PROB 247	1.480 -10.653 63.073 1.00 22.38	N
ATOM	4309 CA PRO B 247	1.110 -12.056 63.298 1.00 22.33	C
ATOM	4311 CB PROB 247	-0.421 -12.017 63.286 1.00 22.35	C
ATOM	4314 CG PROB 247	-0.801 -10.623 63.451 1.00 22.68	С
ATOM	4317 CD PROB 247	0.283 -9.814 62.878 1.00 22.40	C
ATOM	①0 C PROB 247	1.582 -13.077 62.254 1.00 22.55	C
ATOM	4321 O PROB 247	1.449 -14.277 62.506 1.00 22.98	Ο
ATOM	4322 N LYS B 248	2.061 -12.626 61.103 1.00 23.24	N
ATOM	4324 CA LYS B 248	2.555 -13.502 60.031 1.00 23.63	C
ATOM	4326 CB LYS B 248	2.325 -12.814 58.674 1.00 24.19	С
ATOM	4329 CG LYS B 248	0.825 -12.666 58.302 1.00 25.17	C
ATOM	4332 CD LYS B 248	0.664 -12.261 56.816 1.00 27.89	C
ATOM	4335 CE LYS B 248	-0.704 -11.655 56.518 1.00 29.11	C
ATOM	4338 NZ LYS B 248	-0.874 -10.310 57.134 1.00 29.48	N
ATOM	4342 C LYS B 248	4.044 -13.869 60.171 1.00 23.57	C
ATOM	4343 O LYS B 248	4.521 -14.818 59.538 1.00 22.55	О
ATOM	4344 N VAL B 249	4.766 -13.095 60.996 1.00 24.05	N
ATOM	4346 CA VAL B 249	6.222 -13.193 61.132 1.00 23.94	C
ATOM	4348 CB VALB 249	6.834 -11.902 61.761 1.00 24.05	C
ATOM	4350 CG1 VAL B 249	8.364 -12.060 62.013 1.00 23.37	C
ATOM	4354 CG2 VAL B 249	6.554 -10.705 60.878 1.00 23.82	C
ATOM	4358 C VALB 249	6.572 -14.385 62.003 1.00 24.33	C
ATOM	4359 O VALB 249	5.925 -14.623 63.033 1.00 24.36	O
ATOM	4360 N THR B 250	7.584 -15.135 61.555 1.00 24.50	N
ATOM	4362 CA THR B 250	8.104 -16.291 62.274 1.00 24.40	C
ATOM	4364 CB THR B 250	9.238 -16.936 61.466 1.00 24.53	С
ATOM	4366 OG1 THR B 250	8.783 -17.193 60.132 1.00 25.59	О
ATOM	4368 CG2 THR B 250	9.596 -18.319 62.011 1.00 23.78	C
ATOM		8.635 -15.806 63.616 1.00 24.13	С
	4373 O THR B 250	9.579 -15.004 63.650 1.00 23.96	О
	4374 N PROB 251	8.027 -16.266 64.712 1.00 23.65	N
	4375 CA PRO B 251	8.389 -15.781 66.054 1.00 23.24	С
	4377 CB PRO B 251	7.638 -16.744 66.998 1.00 23.24	C
	4380 CG PROB 251	6.496 -17.284 66.199 1.00 23.40	С
	4383 CD PRO B 251	6.946 -17.275 64.765 1.00 23.90	С
	4386 C PROB 251	9.889 -15.829 66.350 1.00 22.61	C
	4387 O PROB 251	10.600 -16.720 65.874 1.00 22.38	0
	4388 N TRP B 252	10.347 -14.866 67.135 1.00 22.13	N
	4390 CA TRP B 252	11.705 -14.860 67.651 1.00 22.14	C
	4392 CB TRP B 252	11.899 -13.608 68.505 1.00 21.80	C
	4395 CG TRP B 252	13.280 -13.365 69.064 1.00 19.35	C
	4396 CD1 TRP B 252	13.701 -13.617 70.338 1.00 16.85	C
_	4398 NE1 TRP B 252	15.005 -13.221 70.495 1.00 14.85	N
	4400 CE2 TRP B 252	15.451 -12.683 69.319 1.00 14.93	C
AIUM	4401 CD2 TRP B 252	14.390 -12.753 68.395 1.00 16.95	С

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ATOM	4402 CE3 TRP B 252	14.595 -12.244 67.100 1.00 16.75	С
ATOM	4404 CZ3 TRP B 252	15.838 -11.734 66.770 1.00 13.87	С
ATOM	4406 CH2 TRP B 252	16.863 -11.685 67.712 1.00 13.95	С
ATOM	4408 CZ2 TRP B 252	16.692 -12.150 68.991 1.00 13.78	С
ATOM	4410 C TRP B 252	11.902 -16.099 68.503 1.00 23.31	С
ATOM	4411 O TRP B 252	10.997 -16.473 69.256 1.00 23.18	Ο
ATOM	4412 N PROB 253	13.053 -16.756 68.383 1.00 24.63	N
ATOM	4413 CA PRO B 253	13.362 -17.882 69.266 1.00 25.77	С
ATOM	4415 CB PRO B 253	14.642 -18.475 68.665 1.00 25.66	С
ATOM	4418 CG PROB 253	15.268 -17.362 67.947 1.00 25.34	С
ATOM	4421 CD PROB 253	14.138 -16.502 67.421 1.00 24.81	C
ATOM	4424 C PROB 253	13.591 -17.385 70.693 1.00 26.95	С
ATOM	4425 O PROB 253	14.543 -16.622 70.941 1.00 27.00	Ο
ATOM	4426 N LEUB 254	12.663 -17.746 71.581 1.00 28.19	N
ATOM	4428 CA LEUB 254	12.812 -17.553 73.013 1.00 29.17	С
ATOM	4430 CB LEU B 254	11.518 -17.075 73.660 1.00 29.19	С
ATOM	4433 CG LEUB 254	11.083 -15.687 73.198 1.00 30.29	С
ATOM	4435 CD1 LEU B 254	9.836 -15.774 72.315 1.00 30.93	С
ATOM	4439 CD2 LEU B 254	10.857 -14.748 74.388 1.00 31.32	С
ATOM	4443 C LEUB 254	13.120 -18.933 73.450 1.00 29.93	C
ATOM	4444 O LEUB 254	12.266 -19.616 74.003 1.00 30.33	О
ATOM	4445 N GLY B 255	14.323 -19.372 73.113 1.00 31.10	N
ATOM	4447 CA GLY B 255	14.742 -20.728 73.390 1.00 32.10	C
ATOM	4450 C GLY B 255	15.677 -20.662 74.568 1.00 33.02	С
ATOM	4451 O GLY B 255	16.004 -19.558 75.026 1.00 33.20	Ο
ATOM	4452 N ALA B 256	16.126 -21.821 75.052 1.00 33.82	N
ATOM	4454 CA ALAB 256	17.270 -21.843 75.961 1.00 34.52	C
ATOM	4456 CB ALA B 256	17.765 -23.266 76.194 1.00 34.47	C
ATOM	4460 C ALA B 256	18.410 -20.942 75.423 1.00 35.19	C
ATOM	4461 O ALA B 256	19.374 -20.677 76.153 1.00 35.52	Ο
ATOM	4462 N ASP B 257	18.295 -20.484 74.163 1.00 35.55	N
ATOM	4464 CA ASP B 257	19.240 -19.535 73.568 1.00 36.08	С
ATOM	4466 CB ASP B 257	19.051 -18.129 74.211 1.00 36.12	С
ATOM	4469 CG ASP B 257	20.329 -17.281 74.251 1.00 36.27	C
ATOM	4470 OD1 ASP B 257	20.545 -16.443 73.345 1.00 35.49	0
ATOM	4471 OD2 ASP B 257	21.155 -17.350 75.190 1.00 36.08	0
ATOM	4472 C ASP B 257	20.634 -20.154 73.750 1.00 36.42	C
ATOM	4473 O ASP B 257	21.530 -19.540 74.339 1.00 36.88	О
ATOM	4474 N PRO B 258	20.816 -21.387 73.252 1.00 36.48	N
ATOM	4475 CA PROB 258	21.956 -22.221 73.671 1.00 36.39	C
ATOM	4477 CB PROB 258	21.489 -23.661 73.344 1.00 36.32	C
ATOM	4480 CG PROB 258	20.159 -23.524 72.607 1.00 36.44	C
ATOM	4483 CD PROB 258	20.002 -22.072 72.228 1.00 36.58	С
ATOM	4486 C PROB 258	23.279 -21.888 72.959 1.00 36.22	С
	4487 O PROB 258	24.207 -22.713 72.995 1.00 36.30	Ο
ATOM	4488 N GLN B 259	23.353 -20.699 72.348 1.00 35.91	N
_	4490 CA GLN B 259	24.514 -20.251 71.572 1.00 35.69	С
ATOM	4492 CB GLN B 259	25.704 -19.958 72.490 1.00 35.83	С

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ATOM	4495	CG GLN B 259	25.427 -18.774 73.430 1.00 36.12	C
ATOM		CD GLN B 259	25.495 -19.144 74.896 1.00 35.62	C
ATOM	4499	OE1 GLN B 259	25.270 -20.297 75.275 1.00 35.62	0
ATOM	4500	NE2 GLN B 259	25.799 -18.162 75.729 1.00 35.86	N
ATOM	4503	C GLN B 259	24.842 -21.283 70.497 1.00 34.89	C
ATOM	4504	O GLN B 259	25.984 -21.750 70.364 1.00 35.10	0
ATOM	4505	N SER B 260	23.791 -21.640 69.762 1.00 33.52	N
ATOM	4507	CA SER B 260	23.855 -22.620 68.699 1.00 32.46	C
ATOM	4509	CB SER B 260	22.708 -23.628 68.833 1.00 32.56	C
ATOM		OG SER B 260	21.448 -22.968 68.777 1.00 32.50	0
ATOM		C SER B 260	23.748 -21.883 67.374 1.00 31.34	C
ATOM		O SER B 260	23.240 -20.759 67.309 1.00 30.83	0
ATOM		N ALA B 261	24.237 -22.540 66.329 1.00 30.11	N
ATOM		CA ALA B 261	24.208 -22.016 64.972 1.00 29.32	C
ATOM		CB ALA B 261	25.044 -22.920 64.061 1.00 29.26	С
ATOM		C ALA B 261	22.770 -21.897 64.443 1.00 28.44	C
ATOM		O ALA B 261	22.459 -21.018 63.645 1.00 28.46	0
ATOM		N ASP B 262	21.898 -22.778 64.918 1.00 27.37	N
		CA ASP B 262	20.532 -22.883 64.411 1.00 26.27	C
		CB ASP B 262	19.888 -24.175 64.952 1.00 26.40	C
ATOM		CG ASP B 262	19.008 -24.859 63.934 1.00 27.38	C
ATOM		OD1 ASP B 262	18.418 -24.150 63.085 1.00 29.79	0
		OD2 ASP B 262	18.851 -26.101 63.908 1.00 28.42	0
ATOM		C ASP B 262	19.673 -21.674 64.791 1.00 24.73	C
ATOM		O ASP B 262	18.939 -21.145 63.969 1.00 24.75	0
ATOM		N ALA B 263	19.774 -21.260 66.048 1.00 23.14	N
ATOM		CA ALA B 263	18.944 -20.202 66.599 1.00 22.15	C
ATOM		CB ALA B 263	18.957 -20.275 68.119 1.00 22.02	C
ATOM		C ALA B 263	19.414 -18.823 66.125 1.00 21.47	C
ATOM		O ALA B 263	18.620 -17.889 66.022 1.00 21.01	0
		N ARG B 264	20.709 -18.702 65.845 1.00 20.63	N
		CA ARG B 264	21.258 -17.489 65.256 1.00 20.10	C
		CB ARG B 264	22.775 -17.604 65.155 1.00 20.12	C
		CG ARG B 264	23.494 -16.291 65.024 1.00 20.98	C
		CD ARG B 264	24.813 -16.375 64.286 1.00 23.02	C
		NE ARG B 264	25.699 -17.411 64.823 1.00 25.21	N
		CZ ARG B 264	26.969 -17.588 64.463 1.00 27.21	C
		NH1 ARG B 264		N
		NH2 ARG B 264	27.673 -18.560 65.011 1.00 28.37	N
ATOM		C ARG B 264	20.650 -17.277 63.872 1.00 19.30	C
		O ARG B 264	20.258 -16.174 63.528 1.00 18.85	0
		N GLN B 265	20.575 -18.347 63.088 1.00 18.93	N
ATOM		CA GLN B 265	19.962 -18.292 61.753 1.00 18.74	C
ATOM		CB GLN B 265	20.125 -19.639 61.019 1.00 18.95	C
		CG GLN B 265	19.433 -19.732 59.638 1.00 20.26	C
ATOM		CD GLN B 265	19.893 -18.661 58.646 1.00 22.64	C
ATOM		OE1 GLN B 265	21.032 -18.702 58.167 1.00 25.12	0
ATOM	4584	NE2 GLN B 265	19.007 -17.709 58.329 1.00 22.08	N

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ATOM	4587	C GLN B 265	18.488 -17.927 61.836 1.00 17.60	С
ATOM	4588	O GLN B 265	17.977 -17.266 60.955 1.00 16.14	Ο
ATOM	4589	N GLN B 266	17.824 -18.391 62.900 1.00 17.56	N
ATOM	4591	CA GLN B 266	16.400 -18.156 63.125 1.00 17.35	C
ATOM	4593	CB GLN B 266	15.840 -19.078 64.220 1.00 17.65	C
ATOM	4596	CG GLN B 266	14.968 -20.222 63.691 1.00 19.14	С
ATOM	4599	CD GLN B 266	14.811 -21.357 64.688 1.00 21.41	С
ATOM	4600	OE1 GLN B 266	14.589 -21.119 65.882 1.00 23.11	О
ATOM	4601	NE2 GLN B 266	14.943 -22.593 64.210 1.00 22.10	N
ATOM	4604	C GLN B 266	16.187 -16.694 63.471 1.00 16.86	С
ATOM	4605	O GLN B 266	15.277 -16.067 62.947 1.00 16.83	O
ATOM	4606	N ARG B 267	17.060 -16.129 64.297 1.00 16.43	N
ATOM	4608	CA ARG B 267	16.993 -14.688 64.582 1.00 16.37	С
ATOM	4610	CB ARG B 267	18.019 -14.294 65.636 1.00 16.42	C
ATOM	4613	CG ARG B 267	17.745 -14.848 67.025 1.00 17.67	C
ATOM	4616	CD ARG B 267	18.814 -14.433 68.007 1.00 19.76	C
ATOM	4619	NE ARG B 267	18.716 -15.140 69.269 1.00 23.24	N
ATOM	4621	CZ ARG B 267	19.565 -16.072 69.689 1.00 24.98	С
ATOM	4622	NH1 ARG B 267	20.611 -16.436 68.947 1.00 25.98	N
ATOM	4625	NH2 ARG B 267	19.363 -16.658 70.864 1.00 24.91	N
ATOM	4628	C ARG B 267	17.199 -13.830 63.324 1.00 15.95	С
ATOM	4629	O ARG B 267	16.438 -12.891 63.066 1.00 14.76	O
ATOM	4630	N PHE B 268	18.236 -14.169 62.554 1.00 15.75	N
ATOM	4632	CA PHE B 268	18.576 -13.453 61.332 1.00 15.52	С
ATOM	4634	CB PHE B 268	19.848 -14.018 60.714 1.00 15.76	С
ATOM	4637	CG PHE B 268	20.221 -13.377 59.413 1.00 18.35	С
ATOM	4638	CD1 PHE B 268	20.871 -12.145 59.387 1.00 20.04	С
ATOM	4640	CE1 PHE B 268	21.209 -11.558 58.182 1.00 19.94	С
ATOM	4642	CZ PHE B 268	20.886 -12.196 56.979 1.00 20.77	C
ATOM	4644	CE2 PHE B 268	20.242 -13.402 56.991 1.00 20.76	С
ATOM	4646	CD2 PHE B 268	19.904 -13.994 58.202 1.00 20.40	С
ATOM	4648	C PHE B 268	17.426 -13.531 60.349 1.00 14.78	С
		O PHE B 268	17.014 -12.527 59.817 1.00 15.24	О
		N ALA B 269	16.887 -14.721 60.136 1.00 14.47	N
		CA ALA B 269	15.734 -14.913 59.251 1.00 13.87	С
		CB ALA B 269	15.363 -16.406 59.185 1.00 13.62	C
		C ALA B 269	14.525 -14.089 59.692 1.00 13.39	C
		O ALA B 269	13.875 -13.476 58.866 1.00 13.14	O
		N HIS B 270	14.231 -14.088 60.992 1.00 13.45	N
		CA HIS B 270	13.147 -13.280 61.567 1.00 13.97	С
		CB HIS B 270	13.043 -13.562 63.081 1.00 14.07	С
		CG HIS B 270	12.230 -12.560 63.854 1.00 15.14	C
		ND1 HIS B 270	10.972 -12.842 64.354 1.00 17.36	N
		CE1 HIS B 270	10.509 -11.792 65.010 1.00 15.22	С
		NE2 HIS B 270	11.426 -10.842 64.962 1.00 16.27	N
		CD2 HIS B 270	12.517 -11.302 64.262 1.00 14.66	С
ATOM		C HIS B 270	13.371 -11.766 61.258 1.00 14.16	C
ATOM	4677	O HIS B 270	12.450 -11.036 60.865 1.00 13.52	О

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ATOM	4678	N PHE B 271	14.606 -11.312 61.398 1.00 14.37	N
ATOM	4680	CA PHE B 271	14.938 -9.950 61.014 1.00 15.70	C
ATOM	4682	CB PHE B 271	16.350 -9.577 61.477 1.00 15.92	C
ATOM	4685	CG PHE B 271	16.438 -9.153 62.936 1.00 17.25	C
ATOM	4686	CD1 PHE B 271	15.458 -8.373 63.527 1.00 18.99	С
ATOM	4688	CE1 PHE B 271	15.570 -7.977 64.852 1.00 18.97	C
ATOM	4690	CZ PHE B 271	16.657 -8.352 65.600 1.00 18.58	С
ATOM	4692	CE2 PHE B 271	17.632 -9.115 65.030 1.00 19.00	С
ATOM		CD2 PHE B 271	17.520 -9.517 63.700 1.00 18.47	С
ATOM	4696	C PHE B 271	14.783 -9.695 59.505 1.00 16.17	C
ATOM		O PHE B 271	14.345 -8.598 59.103 1.00 16.51	O
ATOM		N THR B 272		N
ATOM			15.001 -10.440 57.229 1.00 15.60	С
ATOM			15.661 -11.557 56.360 1.00 15.19	С
ATOM	4704	OG1 THR B 272	15.064 -12.828 56.621 1.00 15.06	О
ATOM	4706	CG2 THR B 272	17.137 -11.762 56.702 1.00 14.81	C
ATOM		C THR B 272		C
ATOM	4711		:	O
ATOM		N GLU B 273		N
ATOM			11.168 -10.707 57.389 1.00 16.91	С
ATOM	4716	CB GLU B 273	10.392 -11.783 58.155 1.00 17.59	С
ATOM	4719	CG GLU B 273		С
ATOM	4722	CD GLU B 273	9.899 -14.259 58.396 1.00 22.41	С
ATOM	4723	OE1 GLU B 273	10.308 -15.457 58.416 1.00 22.79	O
ATOM	4724	OE2 GLU B 273	8.823 -13.892 58.916 1.00 25.21	О
ATOM	4725	C GLU B 273	10.635 -9.325 57.752 1.00 17.10	C
ATOM	4726	O GLU B 273	9.854 -8.736 57.001 1.00 17.36	O
ATOM	4727	N LEUB 274	11.059 -8.789 58.901 1.00 17.58	N
ATOM	4729	CA LEUB 274	10.823 -7.373 59.181 1.00 17.80	С
ATOM	4731	CB LEU B 274	11.429 -6.921 60.502 1.00 17.99	\mathbf{C}
ATOM	4734	CG LEU B 274	10.954 -7.596 61.795 1.00 19.69	C
ATOM	4736	CD1 LEU B 274	11.232 -6.739 63.002 1.00 18.59	C
ATOM	4740	CD2 LEU B 274	9.485 -8.001 61.738 1.00 21.65	C
ATOM	4744	C LEU B 274	11.330 -6.488 58.052 1.00 17.31	C
ATOM	4745	O LEU B 274	10.626 -5.603 57.639 1.00 17.76	Ο
ATOM	4746	N ALA B 275	12.524 -6.743 57.539 1.00 17.48	N
ATOM	4748	CA ALA B 275	13.124 -5.906 56.467 1.00 17.61	C
ATOM	4750	CB ALA B 275	14.604 -6.314 56.187 1.00 17.30	C
ATOM	4754	C ALA B 275	12.318 -6.012 55.193 1.00 17.19	C
ATOM	4755	O ALA B 275	12.125 -5.025 54.507 1.00 16.75	O
ATOM	4756	N ILE B 276	11.826 -7.213 54.911 1.00 17.43	N
		CA ILE B 276	11.006 -7.449 53.737 1.00 17.71	C
		CB ILE B 276	10.719 -8.928 53.574 1.00 17.62	C
ATOM	4762	CG1 ILE B 276	11.942 -9.601 52.945 1.00 18.32	C
		CD1 ILE B 276	11.872 -11.116 52.939 1.00 18.55	C
		CG2 ILE B 276	9.473 -9.168 52.682 1.00 16.70	C
		C ILE B 276	9.721 -6.663 53.873 1.00 18.56	C
ATOM	4774	O ILE B 276	9.284 -6.018 52.911 1.00 19.96	O

		N ILE B 277		N
ATOM	4777	CA ILEB 277	7.925 -5.909 55.283 1.00 18.33	C
ATOM	4779	CB ILE B 277	7.373 -6.111 56.683 1.00 18.46	С
ATOM	4781	CG1 ILE B 277	6.690 -7.475 56.763 1.00 19.14	С
ATOM	4784	CD1 ILE B 277	6.360 -7.874 58.165 1.00 20.33	С
ATOM	4788	CG2 ILE B 277	6.358 -5.040 57.058 1.00 17.80	C
ATOM	4792	C ILE B 277	8.207 -4.447 55.013 1.00 18.33	C
ATOM	4793	O ILE B 277	7.402 -3.795 54.374 1.00 18.06	O
ATOM	4794	N SER B 278	9.332 -3.920 55.494 1.00 18.03	N
ATOM	4796	CA SER B 278	9.593 -2.492 55.342 1.00 18.30	C
ATOM	4798	CB SER B 278	10.753 -2.052 56.225 1.00 18.70	С
ATOM	4801	OG SER B 278	10.934 -0.637 56.159 1.00 18.72	O
ATOM	4803	C SER B 278	9.911 -2.168 53.879 1.00 18.90	C
ATOM	4804	O SER B 278	9.466 -1.177 53.357 1.00 19.41	O
ATOM	4805	N VAL B 279	10.680 -3.012 53.206 1.00 19.42	N
ATOM	4807	CA VALB 279	11.012 -2.720 51.823 1.00 19.96	С
ATOM	4809	CB VAL B 279	12.030 -3.732 51.247 1.00 19.75	С
ATOM	4811	CG1 VAL B 279	12.083 -3.671 49.709 1.00 17.20	C
ATOM	4815	CG2 VAL B 279	13.388 -3.489 51.874 1.00 18.66	C
		C VAL B 279		C
ATOM		O VAL B 279		O
ATOM	4821	N GLN B 280	8.789 -3.558 51.201 1.00 21.26	N
ATOM	4823	CA GLN B 280	7.540 -3.519 50.447 1.00 21.95	C
ATOM	4825	CB GLN B 280	6.728 -4.769 50.683 1.00 22.34	C
ATOM	4828	CG GLN B 280	7.296 -5.958 49.972 1.00 25.42	C
ATOM	4831	CD GLN B 280	6.595 -7.256 50.299 1.00 28.38	C
ATOM	4832	OE1 GLN B 280	5.971 -7.390 51.352 1.00 29.60	O
ATOM	4833	NE2 GLN B 280	6.699 -8.227 49.387 1.00 29.80	N
ATOM	4836	C GLN B 280	6.717 -2.270 50.765 1.00 22.09	С
ATOM	4837	O GLN B 280	6.164 -1.671 49.849 1.00 22.73	O
ATOM	4838	N GLU B 281	6.651 -1.856 52.034 1.00 21.59	N
ATOM	4840	CA GLU B 281	5.911 -0.637 52.394 1.00 21.72	C
ATOM	4842	CB GLU B 281	5.853 -0.428 53.910 1.00 21.87	С
ATOM	4845	CG GLU B 281	5.049 -1.473 54.655 1.00 22.25	C
ATOM	4848	CD GLU B 281	5.202 -1.371 56.171 1.00 21.71	C
ATOM	4849	OE1 GLU B 281	5.975 -0.509 56.668 1.00 17.81	О
ATOM	4850	OE2 GLU B 281	4.529 -2.164 56.865 1.00 19.03	О
ATOM	4851	C GLU B 281	6.531 0.603 51.745 1.00 21.36	C
ATOM	4852	O GLU B 281	5.816 1.473 51.300 1.00 20.72	Ο
ATOM	4853	N ILE B 282	7.860 0.669 51.696 1.00 21.78	N
ATOM	4855	CA ILE B 282	8.579 1.799 51.062 1.00 22.00	C
ATOM	4857	CB ILE B 282	10.080 1.695 51.321 1.00 21.32	С
ATOM	4859	CG1 ILE B 282	10.371 2.117 52.750 1.00 21.12	C
ATOM	4862	CD1 ILE B 282	11.700 1.678 53.247 1.00 22.57	C
ATOM	4866	CG2 ILE B 282	10.872 2.584 50.387 1.00 21.98	С
ATOM	4870	C ILE B 282	8.268 1.956 49.556 1.00 22.01	C
ATOM	4871	O ILE B 282	8.086 3.063 49.090 1.00 21.16	O
ATOM	4872	N VAL B 283	8.220 0.843 48.829 1.00 22.96	N

ATOM	4874 CA VAL B 283	7.785 0.790 47.429 1.00 23.47	C
ATOM	4876 CB VAL B 283	7.700 -0.694 46.911 1.00 24.31	C
ATOM	4878 CG1 VAL B 283	6.896 -0.801 45.603 1.00 23.97	С
ATOM	4882 CG2 VAL B 283	9.083 -1.331 46.734 1.00 24.06	С
ATOM	4886 C VALB 283	6.390 1.409 47.316 1.00 23.71	С
ATOM	4887 O VAL B 283	6.188 2.338 46.552 1.00 24.05	0
ATOM	4888 N ASP B 284	5.429 0.919 48.096 1.00 23.71	N
ATOM		4.066 1.492 48.091 1.00 23.80	С
ATOM	4892 CB ASP B 284		C
ATOM	4895 CG ASP B 284		Č
ATOM		2.521 -1.580 49.242 1.00 32.73	0
ATOM		3.115 -1.036 47.237 1.00 26.84	Ō
	4898 C ASP B 284		C
ATOM	4899 O ASP B 284	3.293 3.733 47.975 1.00 23.18	Ŏ
ATOM	4900 N PHE B 285	4.699 3.276 49.611 1.00 21.83	N
ATOM		4.708 4.665 50.043 1.00 21.89	C
ATOM	4904 CB PHE B 285		Č
ATOM		5.789 6.228 51.707 1.00 20.61	Č
		4.854 6.870 52.493 1.00 20.19	C
		5.056 8.153 52.915 1.00 18.83	Č
	4912 CZ PHE B 285		c
ATOM	4914 CE2 PHE B 285	7.155 8.168 51.776 1.00 18.93	C
ATOM		6.949 6.894 51.379 1.00 20.46	C
	4918 C PHE B 285	5.181 5.603 48.924 1.00 21.93	c
	4919 O PHE B 285	4.623 6.663 48.736 1.00 21.82	0
ATOM	4920 N ALA B 286	6.185 5.202 48.163 1.00 22.60	N
ATOM		6.797 6.117 47.195 1.00 22.00	C
ATOM		8.104 5.573 46.675 1.00 23.49	C
	4924 CB ALA B 286	5.844 6.475 46.050 1.00 23.30	C
ATOM	4928 C ALA B 286		0
ATOM	4929 O ALA B 286		
ATOM	4930 N LYS B 287		N
	4932 CA LYS B 287		C
	4934 CB LYS B 287	3.044 4.604 44.349 1.00 26.06	C
	4937 CG LYS B 287	3.732 3.240 44.182 1.00 28.53	C
	4940 CD LYS B 287	4.511 3.082 42.883 1.00 31.79	C
	4943 CE LYS B 287	4.644 1.579 42.414 1.00 32.44	C
	4946 NZ LYS B 287	3.774 0.604 43.161 1.00 31.88	N
	4950 C LYS B 287	2.934 6.917 45.179 1.00 25.60	C
	4951 O LYS B 287	2.231 7.510 44.362 1.00 25.69	0
	4952 N GLN B 288	2.845 7.102 46.499 1.00 25.59	N
	4954 CA GLN B 288	1.929 8.052 47.129 1.00 25.14	C
ATOM	4956 CB GLN B 288	1.466 7.533 48.507 1.00 24.91	C
-	4959 CG GLN B 288	0.625 6.276 48.456 1.00 25.08	C
	4962 CD GLN B 288	-0.648 6.436 47.620 1.00 27.43	C
	4963 OE1 GLN B 288	-1.299 7.491 47.660 1.00 29.70	0
	4964 NE2 GLN B 288	-0.981 5.418 46.833 1.00 24.98	N
	4967 C GLN B 288	2.576 9.409 47.326 1.00 24.85	C
ATOM	4968 O GLN B 288	1.890 10.361 47.686 1.00 25.19	О

ATOM	4969 N VAL B 289	3.893 9.489 47.135 1.00 24.19	N
ATOM	4971 CA VAL B 289	4.621 10.739 47.252 1.00 23.51	C
ATOM	4973 CB VAL B 289	6.150 10.518 47.404 1.00 23.87	C
ATOM	4975 CG1 VAL B 289	6.874 11.843 47.503 1.00 24.01	C
ATOM	4979 CG2 VAL B 289	6.457 9.714 48.670 1.00 23.94	C
ATOM	4983 C VALB 289	4.368 11.570 46.014 1.00 23.42	С
	4984 O VAL B 289		0
	4985 N PRO B 290	3.707 12.725 46.161 1.00 22.39	N
		3.448 13.592 45.005 1.00 21.62	С
	4988 CB PRO B 290		C
ATOM	4991 CG PRO B 290	2.174 14.361 46.864 1.00 21.47	C
	4994 CD PRO B 290	3.116 13.283 47.391 1.00 22.05	С
		4.688 13.901 44.168 1.00 20.84	C
	4998 O PROB 290		0
ATOM		4.569 13.619 42.879 1.00 19.91	N
ATOM	5001 CA GLY B 291	5.663 13.767 41.951 1.00 18.79	C
ATOM	5004 C GLY B 291	6.398 12.474 41.612 1.00 18.26	C
ATOM	5005 O GLY B 291	7.054 12.382 40.585 1.00 18.74	O
ATOM		6.351 11.464 42.455 1.00 17.97	N
ATOM	5008 CA PHE B 292	7.223 10.316 42.204 1.00 17.81	C
ATOM	5010 CB PHE B 292	7.147 9.314 43.346 1.00 17.81	C
ATOM	5013 CG PHE B 292	8.097 8.164 43.218 1.00 15.70	С
ATOM		9.436 8.339 43.477 1.00 14.75	C
ATOM	5016 CE1 PHE B 292	10.322 7.306 43.370 1.00 12.99	C
ATOM	5018 CZ PHE B 292	9.868 6.065 43.025 1.00 15.22	C
ATOM	5020 CE2 PHE B 292	8.518 5.855 42.754 1.00 14.12	С
ATOM	5022 CD2 PHE B 292	7.641 6.910 42.864 1.00 14.10	C
ATOM	5024 C PHE B 292	6.834 9.652 40.900 1.00 18.05	C
ATOM	5025 O PHE B 292	7.695 9.244 40.133 1.00 17.83	Ο
ATOM	5026 N LEUB 293	5.527 9.585 40.640 1.00 19.39	N
ATOM	5028 CA LEU B 293	5.001 8.887 39.456 1.00 19.72	C
ATOM	5030 CB LEU B 293	3.526 8.460 39.652 1.00 19.64	С
ATOM	5033 CG LEU B 293	3.268 7.255 40.598 1.00 19.21	C
ATOM	5035 CD1 LEU B 293	1.807 6.829 40.550 1.00 16.19	C
ATOM	5039 CD2 LEU B 293	4.197 6.054 40.297 1.00 17.72	C
ATOM	5043 C LEUB 293	5.207 9.630 38.130 1.00 19.37	C
ATOM	5044 O LEUB 293	5.014 9.058 37.080 1.00 19.61	O
ATOM	5045 N GLN B 294	5.622 10.884 38.193 1.00 20.20	N
ATOM	5047 CA GLN B 294	5.975 11.664 37.008 1.00 21.50	С
ATOM	5049 CB GLN B 294	5.966 13.183 37.332 1.00 22.59	C
ATOM	5052 CG GLN B 294	4.564 13.821 37.595 1.00 27.10	C
	5055 CD GLN B 294	4.654 15.198 38.308 1.00 33.39	C
		5.554 16.012 38.022 1.00 38.40	О
	5057 NE2 GLN B 294	3.721 15.449 39.237 1.00 37.44	N
ATOM	5060 C GLN B 294	7.368 11.312 36.468 1.00 21.10	C
ATOM	5061 O GLN B 294	7.672 11.635 35.314 1.00 21.09	О
	5062 N LEUB 295	8.238 10.703 37.289 1.00 19.82	N
ATOM	5064 CA LEU B 295	9.543 10.261 36.788 1.00 19.71	C

ATOM	5066 CB LEU B 295	10.538 9.970 37.924 1.00 20.43	C
ATOM	5069 CG LEU B 295	10.846 11.084 38.906 1.00 21.71	C
ATOM	5071 CD1 LEU B 295	11.603 10.523 40.085 1.00 23.72	С
ATOM	5075 CD2 LEU B 295	11.615 12.198 38.214 1.00 23.91	С
ATOM	5079 C LEUB 295	9.337 9.012 35.972 1.00 18.12	С
ATOM	5080 O LEUB 295	8.359 8.281 36.192 1.00 18.00	O
ATOM	5081 N GLY B 296	10.224 8.785 35.011 1.00 17.34	N
ATOM	5083 CA GLY B 296	10.260 7.531 34.259 1.00 17.08	С
ATOM	5086 C GLY B 296	10.459 6.338 35.181 1.00 16.81	С
ATOM	5087 O GLY B 296	10.996 6.491 36.251 1.00 16.26	O
ATOM	5088 N ARG B 297	9.991 5.157 34.797 1.00 17.84	N
ATOM		10.085 3.999 35.679 1.00 18.97	С
ATOM	5092 CB ARG B 297	9.340 2.765 35.152 1.00 19.44	C
ATOM	5095 CG ARG B 297	9.369 1.623 36.191 1.00 25.58	С
ATOM		8.029 0.943 36.521 1.00 33.49	С
ATOM		8.213 -0.388 37.146 1.00 38.59	N
ATOM			С
ATOM	5104 NH1 ARG B 297		N
ATOM	5107 NH2 ARG B 297		N
ATOM		11.533 3.615 36.020 1.00 17.76	С
ATOM	5111 O ARG B 297	11.780 3.095 37.094 1.00 16.79	O
ATOM	5112 N GLUB 298	12.470 3.863 35.117 1.00 17.36	N
ATOM	5114 CA GLU B 298	13.872 3.510 35.382 1.00 17.32	С
ATOM	5116 CB GLU B 298	14.722 3.476 34.100 1.00 17.52	С
ATOM	5119 CG GLU B 298	14.462 2.202 33.275 1.00 18.16	С
ATOM	5122 CD GLUB 298	15.096 2.207 31.886 1.00 21.18	С
ATOM	5123 OE1 GLU B 298	15.119 3.301 31.259 1.00 22.69	О
ATOM	5124 OE2 GLU B 298	15.581 1.121 31.428 1.00 18.63	О
ATOM	5125 C GLU B 298	14.476 4.392 36.465 1.00 17.16	C
ATOM	5126 O GLUB 298	15.283 3.896 37.245 1.00 17.40	Ο
ATOM	5127 N ASP B 299	14.053 5.653 36.563 1.00 16.22	N
ATOM	5129 CA ASP B 299	14.505 6.534 37.640 1.00 16.84	C
ATOM	5131 CB ASP B 299	14.263 7.996 37.279 1.00 17.23	C
ATOM	5134 CG ASP B 299	15.325 8.571 36.351 1.00 19.38	С
ATOM	5135 OD1 ASP B 299	16.320 7.892 36.011 1.00 18.73	Ο
ATOM	5136 OD2 ASP B 299	15.225 9.726 35.892 1.00 23.85	О
ATOM	5137 C ASP B 299	13.812 6.266 39.012 1.00 16.95	C
ATOM	5138 O ASP B 299	14.425 6.447 40.047 1.00 15.53	Ο
ATOM	5139 N GLN B 300	12.533 5.891 39.000 1.00 16.90	N
ATOM	5141 CA GLN B 300	11.806 5.454 40.191 1.00 16.81	C
ATOM	5143 CB GLN B 300	10.405 4.978 39.804 1.00 16.86	С
	5146 CG GLN B 300	9.455 6.063 39.266 1.00 17.75	C
	5149 CD GLN B 300	8.125 5.493 38.770 1.00 16.43	C
	5150 OE1 GLN B 300	7.711 4.452 39.234 1.00 16.78	0
	5151 NE2 GLN B 300	7.472 6.175 37.817 1.00 13.03	N
	5154 C GLN B 300	12.556 4.277 40.822 1.00 17.48	С
	5155 O GLN B 300	12.809 4.251 42.021 1.00 16.85	0
ATOM	5156 N ILE B 301	12.898 3.303 39.988 1.00 17.63	N

ATOM	5158 CA ILE B 301	13.665 2.145 40.401 1.00 18.03	C
ATOM	5160 CB ILE B 301	13.857 1.175 39.199 1.00 18.58	С
ATOM	5162 CG1 ILE B 301	12.519 0.475 38.861 1.00 19.45	C
ATOM	5165 CD1 ILE B 301	12.484 -0.080 37.456 1.00 19.64	C
ATOM	5169 CG2 ILE B 301	14.899 0.096 39.512 1.00 18.33	С
ATOM	5173 C ILE B 301	15.017 2.579 41.002 1.00 17.95	C
ATOM	5174 O ILE B 301	15.361 2.151 42.109 1.00 17.99	Ο
ATOM	5175 N ALA B 302	15.740 3.461 40.304 1.00 16.92	N
ATOM	5177 CA ALA B 302	17.058 3.902 40.742 1.00 16.34	С
ATOM	5179 CB ALA B 302	17.698 4.738 39.702 1.00 16.84	C
ATOM	5183 C ALA B 302	17.019 4.654 42.052 1.00 16.05	C
ATOM	5184 O ALA B 302	17.828 4.414 42.935 1.00 15.80	Ο
ATOM	5185 N LEUB 303	16.068 5.556 42.183 1.00 17.14	N
ATOM	5187 CA LEUB 303	15.849 6.288 43.418 1.00 17.79	C
ATOM	5189 CB LEU B 303	14.791 7.385 43.231 1.00 18.09	C
ATOM	5192 CG LEU B 303	15.221 8.531 42.308 1.00 17.67	C
ATOM		14.092 9.512 42.250 1.00 19.09	C
ATOM	5198 CD2 LEU B 303	16.499 9.237 42.738 1.00 17.93	C
ATOM	5202 C LEU B 303	15.481 5.397 44.603 1.00 17.88	С
ATOM	5203 O LEU B 303	16.018 5.576 45.694 1.00 18.09	О
ATOM	5204 N LEU B 304	14.599 4.435 44.384 1.00 18.34	N
ATOM	5206 CA LEU B 304	14.225 3.462 45.424 1.00 19.12	C
ATOM	5208 CB LEU B 304	13.000 2.648 45.029 1.00 19.11	C
ATOM	5211 CG LEU B 304	11.682 3.361 45.284 1.00 22.25	С
	5213 CD1 LEU B 304	10.525 2.646 44.598 1.00 23.77	C
ATOM	5217 CD2 LEU B 304		C
ATOM	5221 C LEU B 304	15.362 2.504 45.797 1.00 19.16	С
ATOM	5222 O LEU B 304	15.543 2.207 46.962 1.00 18.26	O
	5223 N LYS B 305		N
ATOM		17.276 1.184 45.087 1.00 20.90	C
	5227 CB LYS B 305		C
ATOM		18.188 -0.474 43.290 1.00 25.43	С
ATOM		19.671 -0.824 43.050 1.00 29.56	C
ATOM	5236 CE LYS B 305	19.872 -2.081 42.196 1.00 33.34	С
ATOM	5239 NZ LYS B 305	20.738 -3.092 42.899 1.00 35.01	N
	5243 C LYS B 305	18.194 1.820 46.132 1.00 21.19	C
	5244 O LYS B 305	18.538 1.202 47.129 1.00 20.18	0
	5245 N ALA B 306	18.575 3.079 45.885 1.00 21.68	N
	5247 CA ALA B 306	19.510 3.801 46.737 1.00 21.68	C
	5249 CB ALA B 306	20.118 5.014 45.965 1.00 21.77	C
ATOM	5253 C ALA B 306	18.909 4.265 48.054 1.00 21.59	C
ATOM	5254 O ALA B 306	19.554 4.149 49.054 1.00 22.32	0
ATOM	5255 N SER B 307	17.673 4.763 48.059 1.00 21.99	N
ATOM	5257 CA SER B 307	17.102 5.400 49.238 1.00 22.32	C
ATOM	5259 CB SER B 307	16.153 6.529 48.826 1.00 22.68	Č
ATOM		14.966 6.025 48.261 1.00 27.06	ō
ATOM		16.392 4.463 50.237 1.00 21.68	C
ATOM	5265 O SER B 307	16.207 4.829 51.383 1.00 21.09	Ö
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ATOM	5266 N THR B 308	16.068 3.242 49.820 1.00 21.12	N
ATOM	5268 CA THR B 308	15.358 2.303 50.663 1.00 20.17	С
	5270 CB THR B 308	15.120 1.004 49.866 1.00 20.22	С
ATOM		14.067 1.229 48.910 1.00 21.08	. 0
ATOM		14.597 -0.110 50.733 1.00 20.01	C
ATOM		16.055 2.063 52.013 1.00 19.87	С
ATOM		15.457 2.269 53.050 1.00 19.84	0
ATOM		7.322 1.681 51.998 1.00 20.00	N
ATOM		18.078 1.457 53.226 1.00 20.44	C
		19.514 0.916 52.937 1.00 20.43	č
ATOM		20.193 0.428 54.226 1.00 21.85	C
		19.587 -0.887 54.827 1.00 23.34	C
		20.393 1.956 52.279 1.00 19.30	Č
		8.118 2.715 54.081 1.00 20.93	c
ATOM		8.043 2.638 55.300 1.00 21.58	o
ATOM			N
ATOM		18.183 3.877 53.450 1.00 21.10	
ATOM		18.233 5.136 54.194 1.00 20.55	C
ATOM	5303 CB GLUB 310	18.665 6.279 53.278 1.00 21.11	C
ATOM	5306 CG GLU B 310		C
		20.596 7.171 51.871 1.00 21.01	C
		20.027 8.242 51.917 1.00 22.94	0
ATOM		21.586 6.987 51.151 1.00 24.16	0
ATOM		16.912 5.428 54.846 1.00 19.84	C
		16.861 5.928 55.933 1.00 18.83	0
		5.828 5.084 54.181 1.00 20.26	N
		14.501 5.301 54.734 1.00 19.99	C
		13.466 5.158 53.614 1.00 20.39	С
ATOM	5320 CG1 ILE B 311	13.622 6.325 52.637 1.00 20.26	C
ATOM	5323 CD1 ILE B 311	12.700 6.234 51.452 1.00 20.97	C
ATOM	5327 CG2 ILE B 311	12.013 5.097 54.200 1.00 20.99	C
ATOM	5331 C ILE B 311 1	4.230 4.325 55.916 1.00 19.83	C
		3.590 4.684 56.920 1.00 18.39	О
ATOM	5333 N MET B 312	14.774 3.111 55.796 1.00 19.60	N
ATOM	5335 CA MET B 312	14.665 2.119 56.854 1.00 19.01	C
ATOM	5337 CB MET B 312	15.236 0.768 56.399 1.00 19.11	C
ATOM	5340 CG MET B 312	14.301 0.062 55.431 1.00 20.34	C
ATOM	5343 SD MET B 312	15.032 -1.379 54.654 1.00 23.02	S
ATOM	5344 CE MET B 312	15.212 -2.430 56.106 1.00 20.75	C
	5348 C MET B 312	15.389 2.612 58.082 1.00 18.35	С
	5349 O MET B 312	14.911 2.420 59.178 1.00 16.83	O
		16.551 3.235 57.888 1.00 18.33	N
	5352 CA LEU B 313	17.357 3.744 58.995 1.00 18.26	C
	5354 CB LEU B 313	18.725 4.206 58.489 1.00 18.25	Č
	5357 CG LEU B 313	19.673 3.040 58.189 1.00 18.56	Č
	5359 CD1 LEU B 313	20.869 3.421 57.305 1.00 19.14	C
	5363 CD2 LEU B 313	20.170 2.424 59.473 1.00 18.97	C
		16.618 4.884 59.701 1.00 18.25	c
ATOM		16.587 4.957 60.918 1.00 18.53	Ö
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ATOM	5369 N LEUB 314	15.981 5.746 58.938 1.00 18.14	N
ATOM	5371 CA LEU B 314	15.184 6.842 59.509 1.00 18.65	C
ATOM	5373 CB LEU B 314	14.670 7.733 58.372 1.00 19.14	С
ATOM	5376 CG LEU B 314	15.050 9.202 58.059 1.00 20.71	С
ATOM	5378 CD1 LEU B 314	16.217 9.794 58.783 1.00 21.19	C
ATOM		15.206 9.415 56.548 1.00 19.63	С
ATOM	5386 C LEU B 314	13.974 6.296 60.298 1.00 18.07	С
ATOM	5387 O LEUB 314	13.629 6.774 61.370 1.00 17.93	Ο
ATOM			N
ATOM		12.166 4.692 60.394 1.00 17.56	С
ATOM		11.424 3.831 59.375 1.00 18.44	C
ATOM		10.579 4.641 58.385 1.00 19.99	С
ATOM		9.477 5.446 59.101 1.00 22.89	С
ATOM		8.566 4.831 59.704 1.00 24.43	0
ATOM		9.532 6.691 59.087 1.00 25.41	0
	5401 C GLU B 315	12.581 3.895 61.644 1.00 16.81	C
ATOM	5402 O GLU B 315		0
ATOM	5403 N THR B 316		N
		14.366 2.674 62.780 1.00 16.08	С
		15.614 1.913 62.285 1.00 15.87	C
ATOM		15.208 0.804 61.491 1.00 14.80	0
ATOM		16.367 1.251 63.426 1.00 17.13	C
ATOM		14.749 3.640 63.902 1.00 17.34	C
ATOM		14.463 3.401 65.074 1.00 17.55	0
ATOM		15.400 4.745 63.552 1.00 18.26	N
		15.695 5.811 64.522 1.00 18.61	С
		16.429 6.964 63.824 1.00 18.53	С
ATOM	5425 C ALA B 317	14.421 6.332 65.204 1.00 18.68	С
ATOM	5426 O ALA B 317		0
ATOM			N
		12.083 6.983 64.928 1.00 19.48	C
ATOM	5431 CB ARG B 318	11.155 7.112 63.709 1.00 19.79	С
ATOM	5434 CG ARG B 318	9.762 7.573 63.931 1.00 21.32	С
	5437 CD ARG B 318	8.974 7.561 62.652 1.00 22.32	C
	5440 NE ARG B 318	7.814 8.424 62.760 1.00 22.06	N
	5442 CZ ARG B 318	7.149 8.902 61.720 1.00 23.25	С
ATOM	5443 NH1 ARG B 318	7.514 8.605 60.475 1.00 23.85	N
ATOM	5446 NH2 ARG B 318	6.114 9.702 61.930 1.00 23.62	N
ATOM	5449 C ARG B 318	11.431 6.027 65.951 1.00 19.52	C
ATOM	5450 O ARG B 318	10.512 6.419 66.646 1.00 18.83	0
ATOM	5451 N ARG B 319	11.884 4.769 65.972 1.00 19.51	N
ATOM	5453 CA ARG B 319	11.359 3.735 66.838 1.00 19.63	C
ATOM	5455 CB ARG B 319	11.023 2.513 65.990 1.00 20.14	C
ATOM	5458 CG ARG B 319	9.761 2.674 65.155 1.00 20.16	C
ATOM	5461 CD ARG B 319	9.662 1.671 64.069 1.00 22.23	С
	5464 NE ARG B 319	8.375 1.782 63.392 1.00 23.64	N
ATOM	5466 CZ ARG B 319	8.091 2.668 62.463 1.00 22.31	C
ATOM	5467 NH1 ARG B 319	8.996 3.540 62.053 1.00 21.00	N

ATOM	5470 NH2 ARG B 319	6.883 2.677 61.934 1.00 23.04	N
ATOM	5473 C ARG B 319	12.341 3.326 67.931 1.00 19.98	C
ATOM	5474 O ARG B 319	12.071 2.396 68.673 1.00 18.70	O
ATOM	5475 N TYR B 320	13.490 4.006 68.013 1.00 20.87	N
ATOM	5477 CA TYR B 320	14.429 3.830 69.124 1.00 21.31	C
ATOM	5479 CB TYR B 320	15.810 4.382 68.752 1.00 21.41	С
ATOM	5482 CG TYR B 320	16.807 4.495 69.897 1.00 21.78	С
ATOM		17.366 3.355 70.464 1.00 21.54	C
ATOM	5485 CEI TYR B 320	18.290 3.432 71.508 1.00 21.17	C
ATOM	5487 CZ TYR B 320	18.689 4.668 71.998 1.00 21.48	C
ATOM	5488 OH TYR B 320	19.595 4.689 73.039 1.00 20.80	O
ATOM		18.163 5.837 71.448 1.00 21.45	C
ATOM		17.218 5.745 70.391 1.00 21.97	Č
ATOM		13.868 4.515 70.387 1.00 21.80	C
ATOM		13.303 5.595 70.328 1.00 21.19	Ö
ATOM		13.998 3.843 71.521 1.00 22.40	N
ATOM		13.573 4.373 72.802 1.00 22.77	C
ATOM		12.708 3.358 73.550 1.00 22.95	Č
ATOM		12.145 3.903 74.842 1.00 22.61	C
ATOM		11.047 3.543 75.250 1.00 22.66	o
ATOM		12.895 4.762 75.498 1.00 23.35	N
ATOM		14.835 4.609 73.562 1.00 23.23	C
ATOM		15.522 3.651 73.936 1.00 22.65	Ö
		5.151 5.884 73.795 1.00 22.03	N
ATOM	•	16.393 6.224 74.473 1.00 24.47	C
ATOM		16.671 7.716 74.398 1.00 24.47	C
ATOM			C
ATOM			
ATOM		19.137 7.229 74.524 1.00 28.18	N C
ATOM		20.247 7.791 74.968 1.00 29.87	
ATOM	5522 NE2 HIS B 322		N
ATOM		18.582 9.162 75.388 1.00 28.26	C
ATOM		6.424 5.764 75.919 1.00 24.60	C
ATOM		7.498 5.505 76.451 1.00 24.45	0
ATOM		15.263 5.659 76.555 1.00 25.02	N
	5530 CA GLUB 323	15.203 5.201 77.954 1.00 26.23	C
	5532 CB GLUB 323	13.811 5.403 78.571 1.00 26.65	C
	5535 CG GLU B 323	13.212 6.790 78.408 1.00 28.87	C
	5538 CD GLU B 323	11.754 6.805 78.818 1.00 31.76	C
	5539 OE1 GLU B 323	10.910 6.371 77.989 1.00 33.58	0
		11.461 7.229 79.964 1.00 32.60	0
ATOM		15.596 3.725 78.122 1.00 25.81	C
		16.390 3.390 79.010 1.00 26.29	0
		15.012 2.852 77.298 1.00 24.93	N
	5545 CA THR B 324	15.311 1.418 77.351 1.00 24.29	C
	5547 CB THR B 324	14.126 0.596 76.828 1.00 24.13	C
	5549 OG1 THR B 324	13.771 1.042 75.512 1.00 25.21	0
	5551 CG2 THR B 324	12.851 0.815 77.667 1.00 23.59	С
ATOM	5555 C THR B 324	16.557 1.042 76.551 1.00 24.20	С

ATOM	5556 O THR B 324	17.089 -0.046 76.731 1.00 23.81	Ο
ATOM	5557 N GLU B 325		N
ATOM		17.977 1.596 74.625 1.00 23.70	С
ATOM		19.364 1.253 75.189 1.00 24.14	С
	5564 CG GLU B 325	19.832 2.161 76.308 1.00 26.62	С
ATOM			С
ATOM		21.818 1.245 77.250 1.00 32.94	O
ATOM		22.039 2.989 75.926 1.00 32.53	0
ATOM	5570 C GLU B 325		C
ATOM			0
	5572 N CYS B 326		N
ATOM		15.556 -0.628 72.625 1.00 21.10	C
		14.577 -1.483 73.437 1.00 20.94	C
		15.362 -2.639 74.570 1.00 19.56	S
ATOM		14.796 -0.052 71.432 1.00 20.61	Č
ATOM		14.300 1.071 71.509 1.00 20.40	Ō
ATOM		14.697 -0.836 70.348 1.00 19.85	N
		13.946 -0.442 69.150 1.00 19.33	C
		14.789 -0.602 67.845 1.00 19.03	Ċ
		16.075 0.213 67.923 1.00 19.00	C
		17.036 -0.001 66.787 1.00 19.79	C
		13.998 -0.115 66.652 1.00 19.82	С
ATOM		12.702 -1.301 69.059 1.00 19.16	C
ATOM	•	12.772 -2.506 69.306 1.00 19.67	O
ATOM		11.581 -0.682 68.682 1.00 18.82	N
ATOM		10.294 -1.352 68.524 1.00 18.96	С
ATOM		9.249 -0.689 69.425 1.00 18.83	С
		9.679 -0.792 70.786 1.00 18.81	O
		7.904 -1.434 69.391 1.00 18.66	C
ATOM			C
ATOM			O
	5615 N PHE B 329	9.864 -2.476 66.390 1.00 19.15	N
	5617 CA PHE B 329	9.343 -2.642 65.054 1.00 19.04	С
ATOM		10.245 -3.635 64.309 1.00 19.24	C
	5622 CG PHE B 329	11.622 -3.116 64.046 1.00 17.86	C
ATOM		12.727 -3.768 64.539 1.00 17.81	C
ATOM	5625 CE1 PHE B 329	14.020 -3.267 64.293 1.00 19.08	С
	5627 CZ PHE B 329	14.187 -2.105 63.530 1.00 18.44	С
	5629 CE2 PHE B 329	13.084 -1.435 63.061 1.00 18.69	С
	5631 CD2 PHE B 329	11.808 -1.933 63.326 1.00 19.29	C
ATOM		7.896 -3.128 65.037 1.00 19.53	C
ATOM	5634 O PHE B 329	7.393 -3.654 66.012 1.00 19.84	Ο
ATOM		7.235 -2.944 63.899 1.00 20.05	N
	5637 CA LEU B 330	5.863 -3.396 63.695 1.00 20.57	С
	5639 CB LEU B 330	5.783 -4.927 63.618 1.00 20.30	C
	5642 CG LEU B 330	6.728 -5.566 62.591 1.00 20.35	С
ATOM	5644 CD1 LEU B 330	6.402 -7.034 62.356 1.00 22.00	C
ATOM	5648 CD2 LEU B 330	6.785 -4.780 61.247 1.00 21.40	C

ATOM	5652 C LEUB 330	4.976 -2.784 64.763 1.00 21.47	C
ATOM	5653 O LEUB 330	4.895 -1.556 64.830 1.00 21.99	0
ATOM	5654 N LYS B 331	4.326 -3.599 65.588 1.00 21.65	N
ATOM	5656 CA LYS B 331	3.487 -3.085 66.647 1.00 22.41	C
ATOM	5658 CB LYS B 331	2.128 -3.796 66.636 1.00 23.11	С
ATOM	5661 CG LYS B 331	1.145 -3.253 67.690 1.00 24.32	C
ATOM	5664 CD LYS B 331	-0.236 -3.877 67.543 1.00 27.35	C
ATOM	5667 CE LYS B 331	-0.555 -4.869 68.655 1.00 27.05	С
ATOM	5670 NZ LYS B 331	-2.010 -4.872 68.941 1.00 28.91	N
ATOM	5674 C LYS B 331	4.126 -3.198 68.045 1.00 22.31	С
ATOM	5675 O LYS B 331	4.046 -2.242 68.794 1.00 22.32	O
ATOM	5676 N ASP B 332	4.759 -4.342 68.351 1.00 21.99	N
ATOM	5678 CA ASP B 332	5.142 -4.776 69.707 1.00 22.70	C
ATOM	5680 CB ASP B 332	4.166 -5.881 70.209 1.00 23.29	C
ATOM	5683 CG ASP B 332	2.813 -5.372 70.469 1.00 26.06	С
ATOM	5684 OD1 ASP B 332	2.666 -4.139 70.484 1.00 31.51	O
ATOM	5685 OD2 ASP B 332	1.838 -6.112 70.700 1.00 31.02	О
ATOM	5686 C ASP B 332	6.488 -5.470 69.789 1.00 21.82	С
ATOM	5687 O ASP B 332	6.823 -6.033 70.836 1.00 22.97	О
ATOM	5688 N PHE B 333	7.205 -5.541 68.692 1.00 20.93	N
ATOM	5690 CA PHE B 333	8.393 -6.381 68.615 1.00 20.56	C
ATOM	5692 CB PHE B 333	8.589 -6.931 67.175 1.00 20.26	С
ATOM	5695 CG PHE B 333	7.773 -8.187 66.859 1.00 18.60	С
		7.974 -8.869 65.668 1.00 16.45	С
ATOM	5698 CE1 PHE B 333	7.235 -10.046 65.359 1.00 16.99	С
ATOM	5700 CZ PHE B 333	6.284 -10.521 66.247 1.00 16.55	С
ATOM	5702 CE2 PHE B 333	6.074 -9.858 67.452 1.00 17.17	C
ATOM	5704 CD2 PHE B 333	6.818 -8.686 67.751 1.00 18.38	С
ATOM	5706 C PHE B 333	9.528 -5.473 69.008 1.00 20.49	C
ATOM	5707 O PHE B 333	9.864 -4.548 68.262 1.00 20.91	О
		10.100 -5.703 70.180 1.00 20.24	N
ATOM	5710 CA THR B 334	11.125 -4.806 70.703 1.00 20.44	C
ATOM	5712 CB THR B 334	10.594 -3.926 71.894 1.00 20.17	C
ATOM	5714 OG1 THR B 334	11.636 -3.678 72.846 1.00 20.79	Ο
ATOM	5716 CG2 THR B 334	9.522 -4.614 72.673 1.00 21.30	C
ATOM	5720 C THR B 334	12.439 -5.534 71.012 1.00 20.30	C
ATOM	5721 O THR B 334	12.449 -6.640 71.561 1.00 19.10	Ο
ATOM	5722 N TYR B 335	13.534 -4.867 70.631 1.00 20.31	N
ATOM	5724 CA TYR B 335	14.844 -5.473 70.484 1.00 20.40	C
ATOM	5726 CB TYR B 335	15.174 -5.647 68.990 1.00 20.45	С
ATOM	5729 CG TYR B 335	14.148 -6.448 68.225 1.00 20.55	С
ATOM	5730 CD1 TYR B 335	13.154 -5.818 67.476 1.00 20.44	C
ATOM	5732 CE1 TYR B 335	12.198 -6.569 66.797 1.00 19.73	С
ATOM	5734 CZ TYR B 335	12.257 -7.953 66.864 1.00 19.12	С
ATOM	5735 OH TYR B 335	11.337 -8.725 66.209 1.00 17.64	Ο
ATOM	5737 CE2 TYR B 335	13.229 -8.579 67.601 1.00 19.14	C
ATOM	5739 CD2 TYR B 335	14.159 -7.836 68.272 1.00 19.10	C
ATOM	5741 C TYR B 335	15.932 -4.612 71.129 1.00 20.52	С

16.014 -3.412 70.893 1.00 20.05. 0 ATOM 5742 O TYR B 335 16.782 -5.251 71.922 1.00 20.43 ATOM 5743 N SER B 336 N 17.952 -4.597 72.486 1.00 20.33 C ATOM 5745 CA SER B 336 ATOM 5747 CB SER B 336 18.305 -5.241 73.831 1.00 19.99 C ATOM 5750 OG SER B 336 18.585 -6.618 73.665 1.00 20.30 0 ATOM 5752 C SER B 336 19.143 -4.690 71.528 1.00 20.27 C 19.108 -5.427 70.523 1.00 19.81 0 ATOM 5753 O SER B 336 ATOM 5754 N LYS B 337 20.185 -3.919 71.834 1.00 20.18 N 21.451 -4.021 71.121 1.00 20.61 ATOM 5756 CA LYS B 337 C C 22.568 -3.298 71.884 1.00 20.73 ATOM 5758 CB LYS B 337 C 22.946 -1.926 71.372 1.00 20.74 ATOM 5761 CG LYS B 337 C ATOM 5764 CD LYS B 337 24.458 -1.797 71.188 1.00 22.51 24.986 -0.449 71.664 1.00 24.73 C ATOM 5767 CE LYS B 337 ATOM 5770 NZ LYS B 337 25.604 0.333 70.567 1.00 26.13 N 21.835 -5.494 70.951 1.00 20.77 ATOM 5774 C LYS B 337 C 22.051 -5.968 69.837 1.00 20.79 0 ATOM 5775 O LYS B 337 21.905 -6.215 72.065 1.00 20.59 N ATOM 5776 N ASP B 338 22.367 -7.594 72.041 1.00 20.75 C ATOM 5778 CA ASP B 338 22.527 -8.136 73.470 1.00 20.88 C ATOM 5780 CB ASP B 338 C 23.646 -7.453 74.224 1.00 21.14 ATOM 5783 CG ASP B 338 ATOM 5784 OD1 ASP B 338 24.481 -6.772 73.571 1.00 23.64 0 ATOM 5785 OD2 ASP B 338 23.767 -7.516 75.454 1.00 19.13 0 21.493 -8.527 71.193 1.00 20.83 C ATOM 5786 C ASP B 338 21.981 -9.566 70.726 1.00 20.93 0 ATOM 5787 O ASP B 338 20.221 -8.180 70.990 1.00 20.59 ATOM 5788 N ASP B 339 N 19.355 -8.971 70.098 1.00 20.18 ATOM 5790 CA ASP B 339 C ATOM 5792 CB ASP B 339 17.901 -8.484 70.139 1.00 20.18 C C 17.172 -8.945 71.373 1.00 20.04 ATOM 5795 CG ASP B 339 17.694 -9.807 72.080 1.00 21.91 ATOM 5796 OD1 ASP B 339 0 ATOM 5797 OD2 ASP B 339 16.061 -8.521 71.725 1.00 22.48 0 ATOM 5798 C ASP B 339 19.864 -8.993 68.658 1.00 20.01 C ATOM 5799 O ASP B 339 19.809 -10.031 67.992 1.00 19.12 0 ATOM 5800 N PHE B 340 20.347 -7.845 68.185 1.00 20.00 N ATOM 5802 CA PHE B 340 20.913 -7.732 66.842 1.00 20.04 C ATOM 5804 CB PHE B 340 21.054 -6.266 66.464 1.00 19.91 C 19.739 -5.540 66.446 1.00 18.63 ATOM 5807 CG PHE B 340 C ATOM 5808 CD1 PHE B 340 19.324 -4.812 67.547 1.00 15.10 C ATOM 5810 CE1 PHE B 340 18.111 -4.167 67.544 1.00 15.79 C ATOM 5812 CZ PHE B 340 17.279 -4.273 66.438 1.00 16.79 C ATOM 5814 CE2 PHE B 340 17.687 -5.004 65.329 1.00 16.17 C ATOM 5816 CD2 PHE B 340 18.896 -5.640 65.341 1.00 17.09 C ATOM 5818 C PHE B 340 22.248 -8.474 66.748 1.00 20.74 C 22.536 -9.163 65.759 1.00 20.52 ATOM 5819 O PHE B 340 0 ATOM 5820 N HIS B 341 23.035 -8.357 67.814 1.00 20.93 N ATOM 5822 CA HIS B 341 24.290 -9.068 67.939 1.00 21.23 C ATOM 5824 CB HIS B 341 24.945 -8.689 69.274 1.00 21.87 C ATOM 5827 CG HIS B 341 26.425 -8.874 69.296 1.00 24.32 C ATOM 5828 ND1 HIS B 341 27.258 -8.283 68.370 1.00 27.26 N

ATOM	5830 CE1 HIS B 341	28.511 -8.619 68.637 1.00 29.23	C
ATOM	5832 NE2 HIS B 341	28.520 -9.394 69.712 1.00 28.26	N
ATOM	5834 CD2 HIS B 341	27.227 -9.569 70.143 1.00 26.81	С
ATOM	5836 C HIS B 341	24.062 -10.587 67.867 1.00 20.61	С
ATOM	5837 O HIS B 341	24.885 -11.326 67.338 1.00 19.93	O
ATOM	5838 N ARG B 342	22.923 -11.031 68.383 1.00 20.24	N
ATOM	5840 CA ARG B 342	22.622 -12.446 68.492 1.00 20.26	C
ATOM	5842 CB ARG B 342	21.609 -12.680 69.603 1.00 20.30	C
ATOM	5845 CG ARG B 342	22.281 -12.799 70.960 1.00 21.07	C
ATOM	5848 CD ARG B 342	21.338 -13.108 72.105 1.00 22.73	C
ATOM	5851 NE ARG B 342	21.925 -12.713 73.387 1.00 24.61	N
ATOM	5853 CZ ARG B 342	21.680 -11.569 74.039 1.00 26.32	C
ATOM			N
ATOM	5857 NH2 ARG B 342		N
ATOM	5860 C ARG B 342	22.147 -13.060 67.175 1.00 20.12	C
ATOM	5861 O ARG B 342	22,203 -14.279 67.005 1.00 20.38	Ö
ATOM	5862 N ALA B 343	21.714 -12.209 66.253 1.00 20.25	N
ATOM	5864 CA ALA B 343	21.349 -12.602 64.899 1.00 20.52	C
ATOM		20.282 -11.648 64.333 1.00 20.71	Č
ATOM		22.542 -12.636 63.954 1.00 20.56	C
ATOM	5871 O ALA B 343	22.363 -12.934 62.781 1.00 20.80	Ŏ
ATOM	5872 N GLY B 344	23.736 -12.303 64.448 1.00 20.56	N
ATOM	5874 CA GLY B 344	24.962 -12.437 63.681 1.00 20.76	C
ATOM		25.405 -11.172 62.972 1.00 21.42	C
ATOM	5878 O GLY B 344	26.286 -11.206 62.121 1.00 20.93	Ö
ATOM	5879 N LEUB 345	24.792 -10.046 63.313 1.00 22.33	N
ATOM		25.185 -8.778 62.709 1.00 23.03	C
ATOM	5883 CB LEU B 345	24.068 -7.734 62.844 1.00 23.04	Č
ATOM	5886 CG LEU B 345	22.727 -8.159 62.246 1.00 22.68	Č
ATOM	5888 CD1 LEU B 345	21.729 -7.055 62.440 1.00 23.50	Č
ATOM		22.859 -8.503 60.764 1.00 22.37	Č
ATOM	5896 C LEU B 345	26.477 -8.309 63.369 1.00 23.48	С
ATOM		26.695 -8.537 64.568 1.00 23.52	ŏ
	5898 N GLN B 346	27.351 -7.700 62.570 1.00 23.84	N
	5900 CA GLN B 346	28.660 -7.277 63.066 1.00 24.25	C
	5902 CB GLN B 346	29.712 -7.209 61.935 1.00 24.57	Č
	5905 CG GLN B 346	29.375 -6.362 60.715 1.00 25.35	Č
	5908 CD GLN B 346	30.330 -6.587 59.535 1.00 26.53	Č
	5909 OEI GLN B 346	30.205 -5.934 58.498 1.00 31.38	Ö
	5910 NE2 GLN B 346	31.263 -7.489 59.690 1.00 24.82	N
	5913 C GLN B 346	28.566 -5.958 63.843 1.00 24.06	c
	5914 O GLN B 346	27.653 -5.181 63.619 1.00 22.61	Ö
	5915 N VALB 347	29.509 -5.752 64.774 1.00 24.61	N
	5917 CA VALB 347	29.551 -4.553 65.631 1.00 24.76	C
	5919 CB VAL B 347	30.753 -4.562 66.633 1.00 24.64	C
	5921 CG1 VAL B 347	30.433 -3.707 67.857 1.00 24.46	C
	5925 CG2 VAL B 347	31.109 -5.959 67.066 1.00 25.76	Č
	5929 C VAL B 347	29.670 -3.285 64.787 1.00 24.58	c
711 0141	JAZA C TILL D JT/	27.010 -J.20J OT.101 1.00 27.30	

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93 ATOM 5930 O VALB 347 29.117 -2.264 65.128 1.00 24.21 0 ATOM 5931 N GLUB 348 30.403 -3.373 63.688 1.00 25.11 N 30.570 -2.253 62.769 1.00 26.25 ATOM 5933 CA GLU B 348 C C ATOM 5935 CB GLU B 348 31.514 -2.630 61.611 1.00 26.63 ATOM 5938 CG GLU B 348 32.980 -2.792 62.024 1.00 28.25 C C 33.376 -4.218 62.372 1.00 30.73 ATOM 5941 CD GLU B 348 ATOM 5942 OE1 GLU B 348 32.478 -5.084 62.504 1.00 32.74 0 34.595 -4.475 62.528 1.00 31.99 0 ATOM 5943 OE2 GLU B 348 29.241 -1.768 62.205 1.00 26.52 C ATOM 5944 C GLU B 348 ATOM 5945 O GLU B 348 29.132 -0.605 61.856 1.00 27.24 0 28.261 -2.668 62.091 1.00 26.35 N ATOM 5946 N PHE B 349 C 26.902 -2.359 61.625 1.00 26.53 ATOM 5948 CA PHE B 349 ATOM 5950 CB PHE B 349 26.283 -3.652 61.030 1.00 27.07 C C ATOM 5953 CG PHE B 349 24.955 -3.474 60.284 1.00 27.97 ATOM 5954 CD1 PHE B 349 24.801 -2.526 59.295 1.00 29.03 C 23.593 -2.410 58.587 1.00 29.29 C ATOM 5956 CE1 PHE B 349 C ATOM 5958 CZ PHE B 349 22.534 -3.269 58.866 1.00 29.80 22.668 -4.231 59.842 1.00 28.08 C ATOM 5960 CE2 PHE B 349 23.882 -4.345 60.537 1.00 29.40 C ATOM 5962 CD2 PHE B 349 26.040 -1.845 62.782 1.00 26.01 C ATOM 5964 C PHE B 349 ATOM 5965 O PHE B 349 25.374 -0.808 62.667 1.00 27.32 0 26.048 -2.565 63.895 1.00 25.04 N ATOM 5966 N ILE B 350 25.114 -2.299 64.977 1.00 24.46 ATOM 5968 CA ILE B 350 C C ATOM 5970 CB ILE B 350 25.220 -3.375 66.089 1.00 24.65 ATOM 5972 CG1 ILE B 350 24.795 -4.753 65.561 1.00 25.40 C ATOM 5975 CD1 ILE B 350 25.391 -5.915 66.342 1.00 24.28 C 24.372 -2.977 67.316 1.00 23.35 C ATOM 5979 CG2 ILE B 350 25.370 -0.937 65.588 1.00 23.74 ATOM 5983 C ILE B 350 C 24.456 -0.138 65.735 1.00 24.06 0 ATOM 5984 O ILE B 350 26.615 -0.690 65.959 1.00 23.14 ATOM 5985 N ASN B 351 N 26.951 0.465 66.797 1.00 23.18 C ATOM 5987 CA ASN B 351 28.417 0.385 67.280 1.00 23.11 C ATOM 5989 CB ASN B 351 ATOM 5992 CG ASN B 351 28.580 -0.413 68.591 1.00 24.24 \mathbf{C} ATOM 5993 OD1 ASN B 351 27.634 -1.013 69.119 1.00 24.68 0 ATOM 5994 ND2 ASN B 351 29.792 -0.408 69.119 1.00 25.12 N ATOM 5997 C ASN B 351 26.621 1.827 66.144 1.00 22.25 C ATOM 5998 O ASN B 351 25.978 2.661 66.758 1.00 21.44 0 ATOM 5999 N PRO B 352 27.011 2.040 64.898 1.00 22.06 N ATOM 6000 CA PRO B 352 26.659 3.279 64.196 1.00 21.97 C ATOM 6002 CB PRO B 352 27.300 3.087 62.825 1.00 22.02 C ATOM 6005 CG PRO B 352 28.358 2.100 63.028 1.00 21.94 C ATOM 6008 CD PRO B 352 27.840 1.161 64.060 1.00 22.45 C ATOM 6011 C PRO B 352 25.151 3.501 64.048 1.00 22.15 C ATOM 6012 O PRO B 352 24.700 4.640 64.067 1.00 22.27 0 ATOM 6013 N ILE B 353 24.383 2.430 63.897 1.00 22.16 N ATOM 6015 CA ILE B 353 22.944 2.571 63.753 1.00 22.41 C ATOM 6017 CB ILE B 353 22.320 1.236 63.269 1.00 22.68 C

22.760 0.968 61.826 1.00 23.88

C

ATOM 6019 CG1 ILE B 353

22.267 -0.333 61.234 1.00 24.70 C ATOM 6022 CD1 ILE B 353 20.799 1.281 63.344 1.00 23.27 C ATOM 6026 CG2 ILE B 353 ATOM 6030 C ILE B 353 22.330 3.069 65.062 1.00 22.45 C 21.366 3.850 65.047 1.00 21.42 0 ATOM 6031 O ILE B 353 22.897 2.627 66.187 1.00 22.75 N ATOM 6032 N PHE B 354 22.419 3.060 67.503 1.00 23.03 C ATOM 6034 CA PHE B 354 ATOM 6036 CB PHE B 354 22.822 2.069 68.618 1.00 23.54 C 21.777 0.993 68.874 1.00 23.55 C ATOM 6039 CG PHE B 354 ATOM 6040 CD1 PHE B 354 21.786 -0.189 68.142 1.00 22.65 C 20.841 -1.166 68.358 1.00 22.86 C ATOM 6042 CE1 PHE B 354 C ATOM 6044 CZ PHE B 354 19.861 -0.976 69.308 1.00 24.11 ATOM 6046 CE2 PHE B 354 19.837 0.206 70.052 1.00 24.26 C ATOM 6048 CD2 PHE B 354 20.793 1.177 69.830 1.00 23.71 C 22.879 4.475 67.824 1.00 22.76 ATOM 6050 C PHE B 354 C 22.102 5.260 68.340 1.00 23.11 0 ATOM 6051 O PHE B 354 ATOM 6052 N GLU B 355 24.121 4.809 67.500 1.00 22.50 N 24.564 6.197 67.547 1.00 22.65 C ATOM 6054 CA GLUB 355 25.988 6.344 66.980 1.00 23.46 \mathbf{C} ATOM 6056 CB GLU B 355 C ATOM 6059 CG GLUB 355 27.097 6.173 68.008 1.00 25.71 28.432 5.742 67.416 1.00 29.42 C ATOM 6062 CD GLU B 355 29.424 5.673 68.197 1.00 32.31 0 ATOM 6063 OE1 GLU B 355 28.501 5.470 66.185 1.00 31.81 0 ATOM 6064 OE2 GLU B 355 ATOM 6065 C GLU B 355 23.621 7.115 66.761 1.00 22.10 C ATOM 6066 O GLU B 355 23.160 8.122 67.282 1.00 22.03 0 ATOM 6067 N PHE B 356 23.341 6.767 65.506 1.00 21.38 N 22.485 7.588 64.668 1.00 21.28 C ATOM 6069 CA PHE B 356 ATOM 6071 CB PHE B 356 22.400 6.997 63.248 1.00 21.46 C ATOM 6074 CG PHE B 356 C 21.411 7.703 62.349 1.00 19.88 21.728 8.922 61.765 1.00 20.32 C ATOM 6075 CD1 PHE B 356 20.799 9.572 60.929 1.00 19.72 \mathbf{C} ATOM 6077 CE1 PHE B 356 C ATOM 6079 CZ PHE B 356 19.551 8.977 60.686 1.00 19.12 19.240 7.769 61.280 1.00 19.42 C ATOM 6081 CE2 PHE B 356 ATOM 6083 CD2 PHE B 356 20.165 7.140 62.093 1.00 18.90 C ATOM 6085 C PHE B 356 21.083 7.753 65.278 1.00 21.70 C 20.522 8.848 65.286 1.00 21.32 ATOM 6086 O PHE B 356 0 ATOM 6087 N SER B 357 20.537 6.665 65.818 1.00 22.22 N 19.198 6.693 66.379 1.00 22.34 ATOM 6089 CA SER B 357 C ATOM 6091 CB SER B 357 18.761 5.297 66.834 1.00 22.15 C ATOM 6094 OG SER B 357 18.850 4.381 65.770 1.00 20.39 0 ATOM 6096 C SER B 357 19.121 7.674 67.545 1.00 23.09 C ATOM 6097 O SER B 357 18.152 8.427 67.651 1.00 22.79 0 ATOM 6098 N ARG B 358 20.133 7.681 68.418 1.00 23.94 N ATOM 6100 CA ARG B 358 20.055 8.569 69.578 1.00 25.01 C ATOM 6102 CB ARG B 358 20.892 8.095 70.784 1.00 25.27 C ATOM 6105 CG ARG B 358 C 22.385 8.167 70.684 1.00 27.29 ATOM 6108 CD ARG B 358 23.090 7.636 71.963 1.00 29.36 C ATOM 6111 NE ARG B 358 23.411 6.218 71.837 1.00 31.12 N ATOM 6113 CZ ARG B 358 24.583 5.717 71.431 1.00 32.37 C

ATOM	6114	NH1 ARG B 358	25.612 6.508 71.116 1.00 32.15	N
ATOM	6117	NH2 ARG B 358	24.727 4.395 71.336 1.00 32.81	N
ATOM	6120	C ARG B 358	20.314 10.010 69.171 1.00 24.86	С
ATOM	6121	O ARG B 358	19.812 10.920 69.815 1.00 24.77	0
		N ALA B 359	21.028 10.213 68.064 1.00 25.00	N
			21.193 11.559 67.510 1.00 25.04	С
			22.292 11.581 66.462 1.00 25.27	С
			19.866 12.069 66.946 1.00 25.27	C
			19.472 13.211 67.213 1.00 24.83	0
			19.163 11.205 66.208 1.00 25.58	N
			17.848 11.524 65.692 1.00 26.02	С
			17.311 10.355 64.891 1.00 26.75	C
			17.865 10.264 63.462 1.00 26.69	C
			17.600 11.773 62.530 1.00 26.78	S
			15.878 11.818 62.334 1.00 29.20	Č
			16.870 11.875 66.805 1.00 27.02	Č
		O MET B 360	16.050 12.758 66.648 1.00 27.29	Ö
			16.975 11.221 67.950 1.00 28.14	N
			16.062 11.498 69.052 1.00 29.35	C
			16.202 10.452 70.169 1.00 29.79	Č
			14.909 10.252 70.977 1.00 32.56	Č
			14.982 10.424 72.510 1.00 33.68	Č
			15.990 11.386 72.937 1.00 36.77	N
			16.081 11.895 74.152 1.00 39.67	C
			15.210 11.563 75.105 1.00 41.48	N
			17.049 12.766 74.417 1.00 42.15	N
		C ARG B 361		C
			15.260 13.539 69.984 1.00 29.69	0
			17.489 13.394 69.692 1.00 29.21	N
			17.489 13.394 09.092 1.00 29.21	C
			19.255 15.033 70.233 1.00 29.68	C
				C
		CG ARG B 362		
		CD ARG B 362		C
		NE ARG B 362		N
		CZ ARG B 362	23.121 12.930 70.302 1.00 39.97	C
			23.289 13.642 69.186 1.00 41.73	N
		NH2 ARG B 362	23.790 11.795 70.459 1.00 40.75	N
		C ARG B 362	17.060 15.871 69.446 1.00 28.31	C
		O ARG B 362	16.831 16.967 69.983 1.00 28.38	0
		N LEU B 363	16.780 15.615 68.178 1.00 26.86	N
			16.062 16.560 67.347 1.00 26.19	C
-		CB LEU B 363	16.284 16.250 65.863 1.00 26.56	C
		CG LEU B 363	17.691 16.558 65.383 1.00 25.98	C
		CD1 LEU B 363	17.832 16.210 63.925 1.00 26.41	C
		CD2 LEU B 363	17.982 18.007 65.616 1.00 28.05	C
		C LEU B 363	14.583 16.548 67.632 1.00 25.35	C
			13.912 17.494 67.326 1.00 25.36	0
ATOM	6216	N GLY B 364	14.061 15.456 68.163 1.00 24.96	N

ATOM	6218	CA GLY B 364	12.648 15.379 68.501 1.00 24.26	C
ATOM	6221	C GLY B 364	11.724 15.691 67.343 1.00 23.80	С
ATOM	6222	O GLY B 364	10.814 16.502 67.481 1.00 24.22	Ο
ATOM		N LEU B 365	11.953 15.056 66.195 1.00 23.27	N
ATOM	6225	CA LEU B 365	11.122 15.300 65.028 1.00 23.05	C
ATOM	6227	CB LEU B 365		C
ATOM	6230	CG LEU B 365	13.100 14.889 63.236 1.00 24.40	C
ATOM	6232		13.116 14.608 61.771 1.00 26.37	C
ATOM	6236	CD2 LEU B 365	13.574 16.268 63.444 1.00 25.76	С
ATOM		C LEU B 365	9.713 14.754 65.254 1.00 22.55	C
ATOM			9.541 13.661 65.776 1.00 21.66	О
ATOM	6242	N ASP B 366	8.716 15.503 64.821 1.00 22.33	N
ATOM	6244	CA ASP B 366	7.357 14.999 64.806 1.00 22.52	С
ATOM	6246	CB ASP B 366		C
ATOM		CG ASP B 366		C
ATOM	6250	OD1 ASP B 366	6.755 17.051 62.929 1.00 24.65	О
ATOM	6251	OD2 ASP B 366	5.909 18.405 64.382 1.00 23.11	О
ATOM			7.066 14.218 63.490 1.00 22.72	С
ATOM			8.012 13.887 62.722 1.00 23.30	O
ATOM	6254	N ASP B 367	5.800 13.881 63.262 1.00 21.59	N
ATOM		CA ASP B 367	5.362 13.148 62.071 1.00 21.79	C
ATOM	6258	CB ASP B 367	3.845 12.838 62.134 1.00 22.31	C
ATOM	6261	CG ASP B 367		C
ATOM	6262	OD1 ASP B 367	4.366 11.222 63.788 1.00 25.82	O
ATOM		OD2 ASP B 367	2.275 11.591 63.517 1.00 29.95	0
ATOM			5.570 13.895 60.760 1.00 21.22	С
ATOM	6265	O ASP B 367	5.936 13.290 59.780 1.00 21.08	O
ATOM		N ALA B 368	5.231 15.178 60.725 1.00 21.32	N
ATOM			5.378 16.003 59.521 1.00 21.50	C
ATOM	6270	CB ALA B 368	4.779 17.356 59.731 1.00 21.08	С
ATOM	6274	C ALA B 368		C
ATOM	6275	O ALA B 368	7.217 16.110 57.970 1.00 22.94	O
ATOM		N GLU B 369	7.724 16.275 60.140 1.00 21.58	N
		CA GLU B 369	9.144 16.389 59.878 1.00 21.28	С
		CB GLU B 369	9.855 16.904 61.119 1.00 20.76	С
		CG GLU B 369	9.515 18.345 61.390 1.00 20.19	C
		CD GLU B 369	9.953 18.786 62.760 1.00 22.59	С
ATOM		OE1 GLU B 369	10.285 19.973 62.899 1.00 22.51	O
ATOM	6288	OE2 GLU B 369	9.964 17.950 63.697 1.00 22.21	О
ATOM	6289	C GLU B 369	9.804 15.099 59.373 1.00 21.09	C
ATOM	6290	O GLU B 369	10.580 15.172 58.454 1.00 20.01	О
ATOM	6291	N TYR B 370	9.520 13.943 59.994 1.00 21.24	N
ATOM	6293	CA TYR B 370	9.988 12.643 59.473 1.00 21.31	С
ATOM	6295	CB TYR B 370	9.540 11.471 60.364 1.00 20.77	С
ATOM	6298	CG TYR B 370	10.539 11.079 61.446 1.00 19.87	С
ATOM	6299	CD1 TYR B 370	10.303 11.338 62.823 1.00 20.47	С
ATOM	6301	CE1 TYR B 370	11.250 10.951 63.809 1.00 18.80	C
ATOM	6303	CZ TYR B 370	12.420 10.325 63.377 1.00 20.52	С

ATOM	6304 OH TYR B 370	13.403 9.900 64.210 1.00 25.00	0
ATOM	6306 CE2 TYR B 370	12.628 10.059 62.054 1.00 19.04	C
ATOM	6308 CD2 TYR B 370	11.695 10.431 61.107 1.00 17.94	C
ATOM	6310 C TYR B 370	9.504 12.422 58.020 1.00 22.05	C
ATOM	6311 O TYR B 370	10.280 12.030 57.132 1.00 22.17	0
ATOM		8.244 12.730 57.751 1.00 22.06	N
ATOM	6314 CA ALAB 371	7.698 12.421 56.437 1.00 22.69	С
ATOM		6.182 12.587 56.404 1.00 22.87	С
ATOM			С
ATOM	6321 O ALA B 371	8.706 12.767 54.311 1.00 23.55	0
ATOM	6322 N LEUB 372		N
ATOM		9.180 15.440 54.698 1.00 21.26	С
	6326 CB LEU B 372		С
ATOM	6329 CG LEU B 372		С
ATOM	6331 CD1 LEU B 372		С
ATOM			C
ATOM			С
ATOM	6340 O LEUB 372	11.077 15.043 53.328 1.00 21.68	0
ATOM		11.323 14.708 55.548 1.00 21.56	N
		12.721 14.252 55.409 1.00 21.75	С
ATOM		13.334 13.852 56.743 1.00 22.45	С
ATOM		14.494 14.616 57.324 1.00 25.72	C
ATOM		15.057 13.823 58.512 1.00 28.43	C
ATOM			C
ATOM		12.825 13.055 54.497 1.00 20.74	C
ATOM	6359 O LEUB 373	13.737 12.942 53.702 1.00 19.81	0
ATOM	6360 N ILE B 374	11.886 12.137 54.642 1.00 21.08	N
ATOM		11.846 10.939 53.817 1.00 20.57	C
ATOM	6364 CB ILE B 374	10.747 10.013 54.335 1.00 20.39	C
ATOM	6366 CG1 ILE B 374	11.229 9.286 55.577 1.00 20.95	C
ATOM	6369 CD1 ILE B 374	10.125 8.645 56.372 1.00 22.08	C
ATOM	6373 CG2 ILE B 374	10.306 8.997 53.280 1.00 20.41	C
ATOM	6377 C ILE B 374	11.633 11.339 52.344 1.00 21.21	C
ATOM	6378 O ILE B 374	12.390 10.936 51.490 1.00 22.26	Ο
ATOM	6379 N ALAB 375	10.633 12.154 52.046 1.00 21.55	N
ATOM	6381 CA ALA B 375	10.410 12.616 50.662 1.00 21.80	C
ATOM	6383 CB ALA B 375	9.202 13.536 50.590 1.00 22.06	C
ATOM	6387 C ALA B 375	11.635 13.314 50.077 1.00 21.85	C
ATOM	6388 O ALA B 375	11.967 13.118 48.893 1.00 21.92	Ο
ATOM	6389 N ILE B 376	12.318 14.114 50.897 1.00 21.50	N
ATOM	6391 CA ILE B 376	13.541 14.782 50.457 1.00 21.19	С
	6393 CB ILE B 376	14.041 15.802 51.532 1.00 20.88	С
ATOM	6395 CG1 ILE B 376	13.075 16.989 51.633 1.00 21.76	C
ATOM	6398 CD1 ILE B 376	13.262 17.836 52.954 1.00 23.09	C
		15.469 16.325 51.249 1.00 18.77	С
	6406 C ILE B 376	14.607 13.720 50.128 1.00 21.39	C
ATOM	6407 O ILE B 376	15.337 13.852 49.181 1.00 21.54	O
ATOM	6408 N ASN B 377	14.676 12.672 50.929 1.00 21.99	N

ATOM 6410 CA ASN B 377 15.626 11.580 50.735 1.00 21.62 C ATOM 6412 CB ASN B 377 15.584 10.615 51.929 1.00 21.16 C ATOM 6415 CG ASN B 377 16.707 9.585 51.892 1.00 22.85 C ATOM 6416 OD1 ASN B 377 17.801 9.787 52.439 1.00 26.20 0 ATOM 6417 ND2 ASN B 377 16.451 8.492 51.231 1.00 23.87 N ATOM 6420 C ASN B 377 15.384 10.825 49.426 1.00 21.04 C ATOM 6421 O ASN B 377 16.333 10.529 48.695 1.00 21.12 0 ATOM 6422 N ILE B 378 14.125 10.537 49.136 1.00 20.01 N ATOM 6424 CA ILE B 378 13.728 9.918 47.866 1.00 20.25 C ATOM 6426 CB ILE B 378 12.192 9.710 47.841 1.00 20.41 C ATOM 6428 CG1 ILE B 378 11.834 8.657 48.899 1.00 21.58 C ATOM 6431 CD1 ILE B 378 10.412 8.370 49.038 1.00 23.80 C ATOM 6435 CG2 ILE B 378 11.714 9.248 46.466 1.00 20.06 C ATOM 6439 C ILE B 378 14.164 10.713 46.655 1.00 20.30 C ATOM 6440 O ILE B 378 14.673 10.146 45.685 1.00 20.64 0 ATOM 6441 N PHE B 379 13.975 12.032 46.688 1.00 20.97 N ATOM 6443 CA PHE B 379 14.327 12.868 45.533 1.00 20.85 C ATOM 6445 CB PHE B 379 13.307 13.978 45.325 1.00 21.03 C ATOM 6448 CG PHE B 379 11.938 13.483 45.028 1.00 18.73 \mathbf{C} ATOM 6449 CD1 PHE B 379 10.895 13.715 45.904 1.00 19.42 C ATOM 6451 CE1 PHE B 379 9.595 13.260 45.618 1.00 18.25 C ATOM 6453 CZ PHE B 379 9.358 12.588 44.424 1.00 19.28 C ATOM 6455 CE2 PHE B 379 10.394 12.365 43.550 1.00 19.35 C ATOM 6457 CD2 PHE B 379 11.675 12.824 43.848 1.00 20.53 C ATOM 6459 C PHE B 379 15.734 13.437 45.618 1.00 21.55 C ATOM 6460 O PHE B 379 15.928 14.630 45.451 1.00 21.95 0 ATOM 6461 N SER B 380 16.716 12.566 45.849 1.00 22.01 N ATOM 6463 CA SER B 380 18.141 12.921 45.766 1.00 22.48 C ATOM 6465 CB SER B 380 18.977 12.086 46,752 1.00 22.20 C ATOM 6468 OG SER B 380 18.295 11.940 47.977 1.00 21.09 0 ATOM 6470 C SER B 380 18.678 12.677 44.389 1.00 22.12 C ATOM 6471 O SER B 380 18.734 11.575 43.966 1.00 22.42 0 ATOM 6472 N ALA B 381 19.158 13.709 43.728 1.00 24.24 N ATOM 6474 CA ALA B 381 19.547 13.663 42.304 1.00 24.67 C ATOM 6476 CB ALA B 381 19.458 15.063 41.711 1.00 24.77 C ATOM 6480 C ALA B 381 20.937 13.107 42.055 1.00 25.40 C ATOM 6481 O ALA B 381 21.322 12.885 40.900 1.00 26.89 0 ATOM 6482 N ASP B 382 21.715 12.895 43.110 1.00 24.87 N ATOM 6484 CA ASP B 382 23.031 12.317 42.942 1.00 24.87 C ATOM 6486 CB ASP B 382 23.974 12.947 43.964 1.00 25.09 C ATOM 6489 CG ASP B 382 23.696 12.451 45.357 1.00 26.78 C ATOM 6490 OD1 ASP B 382 22.509 12.291 45.704 1.00 28.37 0 ATOM 6491 OD2 ASP B 382 24.589 12.135 46.160 1.00 28.69 0 ATOM 6492 C ASP B 382 23.066 10.776 43.074 1.00 24.13 C ATOM 6493 O ASP B 382 24.125 10.200 43.316 1.00 24.36 0 ATOM 6494 N ARG B 383 21.928 10.095 42.957 1.00 23.11 N ATOM 6496 CA ARG B 383 21.933 8.634 43.049 1.00 21.78 C ATOM 6498 CB ARG B 383 20.518 8.111 43.232 1.00 21.83 \mathbf{C}

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ATOM 6501 CG ARG B 383 19.814 8.623 44.440 1.00 20.99	С
ATOM 6504 CD ARG B 383 20.545 8.433 45.741 1.00 20 33	Č
ATOM 6507 NE ARG B 383 19.596 8.511 46.864 1.00 21 84	N
ATOM 6509 CZ ARG B 383 19.918 8.333 48.131 1.00 21 53	C
ATOM 6510 NH1 ARG B 383 21.145 8.007 48.472 1.00 20.87	N
ATOM 6513 NH2 ARG B 383 18.980 8.408 49.059 1.00 23.87	N
ATOM 6516 C ARG B 383 22.505 8.056 41.760 1.00 21.41	C
ATOM 6517 O ARG B 383 22.374 8.667 40.709 1.00 21.61	Ö
ATOM 6518 N PROB 384 23.090 6.869 41.801 1.00 20.87	N
ATOM 6519 CA PRO B 384 23.582 6.251 40.559 1.00 20.64	C
ATOM 6521 CB PRO B 384 24.368 5.002 41.035 1.00 20.73	C
ATOM 6524 CG PRO B 384 24.050 4.814 42.506 1.00 20.95	C
ATOM 6527 CD PROB 384 23.284 6.012 42.984 1.00 20.98	C
ATOM 6530 C PROB 384 22.442 5.862 39.582 1.00 19.58	
ATOM 6531 O PROB 384 21.321 5.562 39.988 1.00 19.38	C O
ATOM 6532 N ASN B 385 22.773 5.923 38.300 1.00 19.38	
ATOM 6534 CA ASN B 385 21.928 5.546 37.187 1.00 18.87	N
ATOM 6536 CB ASN B 385 21.539 4.064 37.266 1.00 19.17	C
ATOM 6539 CG ASN B 385 22.741 3.138 37.378 1.00 19.97	C
ATOM 6540 OD1 ASN B 385 22.846 2.358 38.322 1.00 23.24	C
ATOM 6541 ND2 ASN B 385 23.634 3.212 36.422 1.00 23.24	0
ATOM 6544 C ASN B 385 20.677 6.412 37.009 1.00 18.90	N
ATOM 6545 O ASN B 385 19.758 6.015 36.312 1.00 19.01	C
ATOM 6546 N VALB 386 20.630 7.595 37.609 1.00 18.05	0
ATOM 6548 CA VALB 386 19.492 8.466 37.390 1.00 18.05	N
ATOM 6550 CB VAL B 386 19.341 9.452 38.535 1.00 17.77	C
ATOM 6552 CG1 VAL B 386 18.322 10.502 38.195 1.00 18.53	C
ATOM 6556 CG2 VAL B 386 18.920 8.706 39.830 1.00 18.13	C
ATOM 6560 C VALB 386 19.667 9.161 36.023 1.00 18.53	C
ATOM 6561 O VAL B 386 20.736 9.692 35.730 1.00 18.62	C
ATOM 6562 N GLN B 387 18.632 9.112 35.179 1.00 18.75	0
1.00 10.7 <i>J</i>	N
10.070 7.074 53.029 1.00 18.90	C
ATOM 6566 CB GLN B 387 17.850 8.854 32.889 1.00 19.60 ATOM 6569 CG GLN B 387 18.514 7.502 32.605 1.00 23.43	C
ATOM 6572 CD GLN B 387 17.662 6.666 31.704 1.00 27.31	C
ATOM 6573 OE1 GLN B 387 17.705 6.860 30.486 1.00 33.18	C
ATOM 6574 NE2 GLN B 387 16.866 5.751 32.272 1.00 26.97	0
ATOM 6577 C GLN B 387 18.188 11.128 33.743 1.00 18.62	N
ATOM 6578 O GLN B 387 18.598 11.841 32.854 1.00 17.67	C
ATOM 6579 N GLUB 388 17.328 11.555 34.672 1.00 18.51	0
ATOM 6581 CA GLUB 388 16.893 12.948 34.726 1.00 18.71	N
ATOM 6583 CB GLUB 388 15.406 13.064 34.376 1.00 19.03	C
ATOM 6586 CG GLU B 388 15.119 12.747 32.925 1.00 20.30	C
ATOM 6589 CD GLUB 388 13.677 12.993 32.593 1.00 20.30	C
ATOM 6590 OE1 GLUB 388 12.907 12.005 32.582 1.00 24.61	C
ATOM 6591 OE2 GLU B 388 13.324 14.167 32.345 1.00 20.18	0
ATOM 6592 C GLU B 388 17.173 13.573 36.091 1.00 18.20	0
ATOM (600 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C
ATOM 6593 O GLU B 388 16.247 13.948 36.787 1.00 17.43	O

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ATOM	6594 N PRO B 389		N
ATOM	6595 CA PRO B 389	18.815 14.248 37.773 1.00 18.55	С
ATOM	6597 CB PRO B 389	20.346 14.213 37.776 1.00 19.60	С
ATOM	6600 CG PRO B 389	20.783 13.940 36.330 1.00 17.71	С
ATOM	6603 CD PRO B 389	19.641 13.313 35.664 1.00 17.77	С
ATOM	6606 C PRO B 389	18.303 15.665 38.029 1.00 19.06	С
ATOM	6607 O PRO B 389	17.938 15.957 39.172 1.00 20.06	O
ATOM	6608 N GLY B 390	18.252 16.525 37.018 1.00 18.94	N
ATOM		17.707 17.878 37.178 1.00 18.72	C
ATOM		16.244 17.849 37.526 1.00 18.89	C
ATOM		15.744 18.568 38.368 1.00 19.36	Ο
ATOM	6615 N ARG B 391	15.545 16.955 36.876 1.00 19.62	N
ATOM		14.146 16.715 37.160 1.00 20.15	C
ATOM		13.645 15.740 36.124 1.00 20.61	С
ATOM	6622 CG ARG B 391	12.195 15.593 36.115 1.00 24.70	C
ATOM	6625 CD ARG B 391	11.492 16.493 35.187 1.00 29.28	C
ATOM		10.232 15.812 34.933 1.00 34.22	N
ATOM		9.037 16.308 35.165 1.00 37.37	С
ATOM		8.862 17.557 35.639 1.00 37.23	N
ATOM			N
ATOM			С
ATOM	6638 O ARG B 391	12.973 16.602 39.248 1.00 20.55	0
ATOM	6639 N VAL B 392		N
ATOM			C
ATOM			\mathbf{C}
ATOM		15.677 13.306 42.168 1.00 17.59	С
ATOM		15.276 12.483 39.856 1.00 19.32	С
	6653 C VAL B 392	14.889 15.984 41.415 1.00 19.99	C
ATOM		14.266 16.037 42.462 1.00 19.77	O
ATOM			N
ATOM		16.120 17.986 41.998 1.00 22.72	C
		17.387 18.707 41.562 1.00 23.91	C
	6662 CG GLU B 393		С
ATOM			C
	6666 OE1 GLU B 393		Ο
ATOM		19.751 20.546 41.346 1.00 37.57	0
ATOM		14.975 18.957 42.032 1.00 22.64	C
ATOM		14.656 19.485 43.076 1.00 24.10	O
	6670 N ALA B 394	14.320 19.166 40.900 1.00 22.81	N
	6672 CA ALA B 394	13.176 20.066 40.863 1.00 22.69	\mathbf{C}
ATOM		12.795 20.396 39.450 1.00 22.06	C
ATOM		11.981 19.467 41.617 1.00 23.03	С
ATOM		11.202 20.231 42.181 1.00 23.92	Ο
	6680 N LEUB 395	11.816 18.131 41.634 1.00 22.54	N
ATOM		10.742 17.525 42.445 1.00 21.91	С
	6684 CB LEU B 395		С
	6687 CG LEUB 395		C
ATOM		9.943 14.498 40.103 1.00 27.97	С

ATOM	6693 CD2 LEU B 395	8.618 16.573 40.261 1.00 25.94	С
ATOM	6697 C LEUB 395	11.065 17.528 43.939 1.00 21.66	C
ATOM	6698 O LEUB 395	10.176 17.494 44.774 1.00 22.24	0
ATOM	6699 N GLN B 396	12.342 17.606 44.282 1.00 21.70	N
ATOM	6701 CA GLN B 396	12.774 17.642 45.662 1.00 21.46	C
ATOM	6703 CB GLN B 396	14.290 17.407 45.748 1.00 21.16	C
ATOM	6706 CG GLN B 396	14.762 17.278 47.157 1.00 19.91	C
ATOM	6709 CD GLN B 396	16.242 17.271 47.304 1.00 18.53	C
ATOM	6710 OE1 GLN B 396	16.814 16.357 47.872 1.00 21.58	C
ATOM	6711 NE2 GLN B 396	16.853 18.307 46.880 1.00 19.04	N
ATOM	6714 C GLN B 396	12.512 18.999 46.310 1.00 22.42	С
ATOM	6715 O GLN B 396	12.311 19.083 47.531 1.00 22.74	0
ATOM	6716 N GLN B 397	12.609 20.059 45.515 1.00 21.79	N
ATOM	6718 CA GLN B 397	12.642 21.406 46.061 1.00 22.10	C
ATOM	6720 CB GLN B 397	12.921 22.426 44.932 1.00 21.93	C
ATOM	6723 CG GLN B 397	12.340 23.784 45.175 1.00 25.00	C
ATOM	6726 CD GLN B 397	12.712 24.823 44.098 1.00 27.36	C
ATOM	6727 OE1 GLN B 397	13.741 24.712 43.446 1.00 29.73	C
ATOM	6728 NE2 GLN B 397	11.843 25.817 43.907 1.00 28.44	N
ATOM	6731 C GLN B 397	11.399 21.804 46.892 1.00 21.10	C
ATOM	6732 O GLN B 397	11.548 22.460 47.924 1.00 20.27	0
ATOM	6733 N PROB 398	10.197 21.491 46.413 1.00 20.27	N
ATOM	6734 CA PRO B 398	8.978 21.775 47.170 1.00 20.48	С
ATOM	6736 CB PRO B 398	7.853 21.157 46.285 1.00 20.46	C
ATOM	6739 CG PRO B 398	8.399 21.083 44.907 1.00 20.28	C
ATOM	6742 CD PRO B 398	9.897 20.933 45.078 1.00 20.66	С
ATOM	6745 C PROB 398	8.955 21.149 48.595 1.00 20.52	C
ATOM	6746 O PROB 398	8.406 21.758 49.513 1.00 19.86	Ο
ATOM	6747 N TYR B 399	9.513 19.947 48.736 1.00 19.95	N
ATOM	6749 CA TYR B 399	9.694 19.267 50.017 1.00 19.66	С
ATOM	6751 CB TYR B 399	10.095 17.794 49.771 1.00 19.96	C
ATOM	6754 CG TYR B 399	8.992 17.060 49.082 1.00 20.60	С
ATOM	6755 CD1 TYR B 399	9.067 16.731 47.722 1.00 21.38	С
ATOM	6757 CE1 TYR B 399	7.972 16.080 47.079 1.00 20.43	С
ATOM	6759 CZ TYR B 399	6.844 15.797 47.808 1.00 18.83	C
ATOM	6760 OH TYR B 399	5.769 15.177 47.250 1.00 21.91	Ο
ATOM	6762 CE2 TYR B 399	6.764 16.139 49.136 1.00 18.87	С
ATOM	6764 CD2 TYR B 399	7.815 16.777 49.758 1.00 18.80	С
ATOM	6766 C TYR B 399	10.702 19.951 50.936 1.00 19.16	С
ATOM	6767 O TYR B 399	10.465 20.049 52.148 1.00 18.16	0
ATOM	6768 N VALB 400	11.812 20.431 50.376 1.00 18.94	N
ATOM	6770 CA VAL B 400	12.788 21.216 51.140 1.00 18.36	С
ATOM	6772 CB VAL B 400	14.078 21.510 50.338 1.00 18.34	C
ATOM	6774 CG1 VAL B 400	15.057 22.361 51.158 1.00 17.60	C
ATOM	6778 CG2 VAL B 400	14.805 20.218 49.978 1.00 18.78	C
ATOM	6782 C VAL B 400	12.126 22.509 51.633 1.00 19.10	С
ATOM	6783 O VAL B 400	12.266 22.901 52.793 1.00 18.63	0
ATOM	6784 N GLU B 401	11.363 23.137 50.752 1.00 19.95	N

ATOM 6786 CA GLU B 401 10.660 24.396 51.040 1.00 20.81 C ATOM 6788 CB GLU B 401 9.980 24.887 49.769 1.00 21.64 C ATOM 6791 CG GLU B 401 9.504 26.324 49.799 1.00 27.75 C ATOM 6794 CD GLUB 401 10.501 27.293 49.155 1.00 36.68 C ATOM 6795 OE1 GLU B 401 10.588 28.481 49.617 1.00 38.68 0 ATOM 6796 OE2 GLU B 401 11.197 26.868 48.179 1.00 41.81 0 ATOM 6797 C GLU B 401 9.629 24.230 52.155 1.00 19.84 C ATOM 6798 O GLUB 401 9.589 25.014 53.106 1.00 18.68 0 ATOM 6799 N ALA B 402 8.838 23.157 52.064 1.00 19.81 N ATOM 6801 CA ALA B 402 7.834 22.859 53.078 1.00 19.56 C ATOM 6803 CB ALA B 402 6.939 21.709 52.631 1.00 19.65 C ATOM 6807 C ALA B 402 8.477 22.517 54.406 1.00 19.45 C ATOM 6808 O ALA B 402 7.937 22.861 55.450 1.00 19.63 0 ATOM 6809 N LEUB 403 9.602 21.803 54.382 1.00 18.88 N ATOM 6811 CA LEU B 403 10.291 21.515 55.623 1.00 18.91 C ATOM 6813 CB LEU B 403 11.403 20.485 55.442 1.00 18.51 \mathbf{C} ATOM 6816 CG LEUB 403 12.064 19.983 56.718 1.00 17.83 ATOM 6818 CD1 LEU B 403 11.007 19.509 57.721 1.00 17.29 C ATOM 6822 CD2 LEU B 403 13.053 18.855 56.391 1.00 17.18 C ATOM 6826 C LEU B 403 10.864 22.799 56.222 1.00 19.30 C ATOM 6827 O LEUB 403 10.836 22.962 57.445 1.00 19.32 0 ATOM 6828 N LEU B 404 11.349 23.710 55.385 1.00 18.83 N ATOM 6830 CA LEUB 404 11.908 24.971 55.893 1.00 19.83 C ATOM 6832 CB LEU B 404 12.582 25.758 54.769 1.00 19.82 C ATOM 6835 CG LEUB 404 13.162 27.133 55.082 1.00 21.43 \mathbf{C} ATOM 6837 CD1 LEU B 404 14.160 27.114 56.223 1.00 21.67 C ATOM 6841 CD2 LEU B 404 13.827 27.664 53.830 1.00 23.49 C ATOM 6845 C LEUB 404 10.814 25.826 56.544 1.00 20.14 C ATOM 6846 O LEUB 404 10.966 26.280 57.675 1.00 19.85 0 ATOM 6847 N SER B 405 9.711 26.025 55.824 1.00 20.46 N ATOM 6849 CA SER B 405 8.570 26.776 56.344 1.00 21.10 C ATOM 6851 CB SER B 405 7.494 26.874 55.286 1.00 20.99 C ATOM 6854 OG SER B 405 7.940 27.728 54.257 1.00 22.98 0 ATOM 6856 C SER B 405 7.968 26.162 57.598 1.00 21.36 C ATOM 6857 O SER B 405 7.627 26.881 58.513 1.00 20.94 0 ATOM 6858 N TYR B 406 7.848 24.832 57.629 1.00 21.51 N ATOM 6860 CA TYR B 406 7.295 24.124 58.776 1.00 21.53 C ATOM 6862 CB TYR B 406 7.098 22.638 58.440 1.00 22.05 C ATOM 6865 CG TYR B 406 6.431 21.844 59.542 1.00 23.67 C ATOM 6866 CD1 TYR B 406 5.043 21.693 59.585 1.00 24.99 C ATOM 6868 CE1 TYR B 406 4.432 20.986 60.609 1.00 25.66 C ATOM 6870 CZ TYR B 406 5.221 20.429 61.607 1.00 26.80 C ATOM 6871 OH TYR B 406 4.665 19.720 62.646 1.00 26.38 0 ATOM 6873 CE2 TYR B 406 6.597 20.568 61.566 1.00 26.07 C ATOM 6875 CD2 TYR B 406 7.187 21.268 60.546 1.00 24.46 C ATOM 6877 C TYR B 406 8.160 24.280 60.035 1.00 21.46 C ATOM 6878 O TYR B 406 7.628 24.611 61.082 1.00 20.76 0 ATOM 6879 N THR B 407 9.479 24.056 59.935 1.00 22.12 N

ATOM	6881 CA THR B 407	10.380 24.170 61.104 1.00 22.52	C
ATOM	6883 CB THR B 407	11.845 23.693 60.845 1.00 22.07	С
ATOM		12.375 24.291 59.659 1.00 21.27	O
ATOM		11.918 22.218 60.585 1.00 21.87	C
ATOM	6891 C THR B 407		С
ATOM	6892 O THR B 407		О
ATOM	6893 N ARG B 408		N
ATOM	6895 CA ARG B 408	10.251 27.989 61.095 1.00 26.16	С
ATOM	6897 CB ARG B 408		С
ATOM		11.422 29.169 59.213 1.00 29.07	C
ATOM		11.316 30.145 58.080 1.00 33.02	C
ATOM	6906 NE ARG B 408	12.639 30.395 57.520 1.00 36.59	N
ATOM	6908 CZ ARG B 408	12.875 30.989 56.355 1.00 39.86	C
ATOM	6909 NH1 ARG B 408	11.870 31.415 55.590 1.00 40.48	N
ATOM	6912 NH2 ARG B 408	14.138 31.162 55.955 1.00 41.20	N
ATOM	6915 C ARG B 408	9.046 28.312 61.947 1.00 26.90	C
ATOM	6916 O ARG B 408	9.115 29.145 62.856 1.00 26.25	O
ATOM			N
ATOM	6919 CA ILE B 409	6.657 27.927 62.273 1.00 28.59	C
ATOM	6921 CB ILE B 409	5.500 27.609 61.305 1.00 28.57	C
ATOM	6923 CG1 ILE B 409	5.513 28.615 60.148 1.00 27.22	C
ATOM		4.730 28.171 58.934 1.00 27.40	С
ATOM	6930 CG2 ILE B 409	4.154 27.569 62.041 1.00 28.50	C
ATOM	6934 C ILE B 409	6.551 27.138 63.583 1.00 29.57	C
ATOM	6935 O ILE B 409		О
ATOM	6936 N LYS B 410	7.121 25.939 63.631 1.00 30.86	N
		6.988 25.066 64.797 1.00 32.21	C
ATOM	6940 CB LYS B 410	7.166 23.588 64.418 1.00 32.45	C
ATOM	6943 CG LYS B 410	8.221 22.814 65.260 1.00 33.99	C
ATOM	6946 CD LYS B 410	8.114 21.286 65.125 1.00 34.20	C
ATOM	6949 CE LYS B 410	8.522 20.586 66.421 1.00 35.09	С
ATOM	6952 NZ LYS B 410	8.397 19.084 66.286 1.00 36.30	N
ATOM	6956 C LYS B 410	7.941 25.437 65.930 1.00 33.27	C
ATOM	6957 O LYS B 410	7.521 25.534 67.095 1.00 33.79	0
ATOM	6958 N ARG B 411	9.222 25.606 65.609 1.00 34.33	N
ATOM	6960 CA ARG B 411	10.206 26.083 66.585 1.00 35.18	С
ATOM	6962 CB ARG B 411	11.248 25.004 66.924 1.00 35.80	C
ATOM	6965 CG ARG B 411	10.683 23.741 67.611 1.00 38.53	C
ATOM	6968 CD ARG B 411	10.853 23.665 69.160 1.00 42.62	С
ATOM	6971 NE ARG B 411	11.101 22.280 69.612 1.00 46.02	N
	6973 CZ ARG B 411	12.300 21.662 69.621 1.00 47.66	С
	6974 NH1 ARG B 411		N
	6977 NH2 ARG B 411		N
	6980 C ARG B 411	10.872 27.325 66.019 1.00 34.97	C
	6981 O ARG B 411	11.978 27.258 65.483 1.00 34.95	O
	6982 N PRO B 412	10.201 28.469 66.141 1.00 35.00	N
	6983 CA PRO B 412	10.704 29.715 65.549 1.00 34.89	С
ATOM	6985 CB PRO B 412	9.532 30.689 65.734 1.00 34.62	С

ATOM	1 6988 CG PRO B 412	8.753 30.151 66.866 1.00 34.16	С
ATOM	4 6991 CD PROB 412	8.924 28.675 66.855 1.00 34.87	C
ATOM	1 6994 C PROB 412	11.961 30.253 66.217 1.00 35.11	C
ATOM		1.00 55.11	Ö
ATOM	1 6996 N GLN B 413		N
ATOM		13.527 30.198 68.087 1.00 35.71	C
ATOM	7000 CB GLN B 413	13.146 30.691 69.495 1.00 35.93	C
	1 7003 CG GLN B 413		C
	7006 CD GLN B 413		C
ATOM		12.480 33.649 67.918 1.00 37.13	0
ATOM	7008 NE2 GLN B 413	13.538 33.812 69.901 1.00 38.43	N
		14.677 29.183 68.151 1.00 35.33	C
ATOM	7012 O GLN B 413	15.675 29.438 68.820 1.00 35.84	O
	7013 N ASP B 414	14.544 28.049 67.461 1.00 34.73	N
		15.691 27.174 67.172 1.00 34.14	C
ATOM	7017 CB ASP B 414	15.466 25.727 67.632 1.00 34.43	C
ATOM		16.752 24.886 67.574 1.00 35.47	C
ATOM	7021 OD1 ASP B 414	17.799 25.376 67.085 1.00 36.59	O
ATOM		16.822 23.727 68.025 1.00 37.73	Ö
ATOM	7023 C ASP B 414	15.953 27.165 65.689 1.00 32.85	c
ATOM	7024 O ASP B 414	15.444 26.313 64.973 1.00 33.10	O
ATOM	7025 N GLN B 415	16.767 28.096 65.230 1.00 31.49	N
ATOM	7027 CA GLN B 415	17.013 28.245 63.801 1.00 30.71	Ċ
ATOM	7029 CB GLN B 415	17.546 29.646 63.508 1.00 31.50	č
ATOM		17.044 30.228 62.193 1.00 33.44	č
ATOM		17.412 31.699 62.033 1.00 35.70	č
ATOM		16.661 32.462 61.413 1.00 37.83	Ö
ATOM	7037 NE2 GLN B 415	18.568 32.099 62.579 1.00 35,86	N
ATOM			C
ATOM	7041 O GLN B 415	1.00 27.27	O
ATOM	7042 N LEUB 416		N
ATOM	7044 CA LEU B 416	19.594 25.440 63.609 1.00 26.89	С
	7046 CB LEU B 416	1.00 27.00	С
	7049 CG LEU B 416	21.479 26.755 64.628 1.00 26.37	C
	7051 CD1 LEU B 416	22.711 26.643 65.452 1.00 26.65	С
	7055 CD2 LEU B 416	21.777 27.334 63.233 1.00 25.68	С
	7059 C LEUB 416	18.987 24.057 63.457 1.00 26.56	C
	7060 O LEUB 416	19.645 23.137 63.022 1.00 27.07	O
	7061 N ARG B 417	17.714 23.921 63.787 1.00 25.89	N
	7063 CA ARG B 417	16.989 22.667 63.651 1.00 25.07	C
	7065 CB ARG B 417 7068 CG ARG B 417	==515 51.100 1.00 25.50	C
ATOM		20.20	C
		13.277 22.075 64.739 1.00 29.42	С
	7074 NE ARG B 417	12.437 20.881 64.733 1.00 26.91	N
		12.598 19.893 65.587 1.00 28.65	C
ATOM	7080 NH2 ARG B 417	13.490 19.983 66.568 1.00 28.98	N
	7083 C ARG B 417	11.841 18.821 65.488 1.00 30.77	N
	THE CAME DIT	16.901 22.186 62.222 1.00 23.66	С

17.168 21.022 61.917 1.00 23.62 0 ATOM 7084 O ARG B 417 ATOM 7085 N PHE B 418 16.485 23.075 61.338 1.00 22.27 N 16.391 22.744 59.925 1.00 21.50 C ATOM 7087 CA PHE B 418 15.839 23.936 59.155 1.00 21.21 C ATOM 7089 CB PHE B 418 15.686 23.696 57.702 1.00 20.80 C ATOM 7092 CG PHE B 418 C ATOM 7093 CD1 PHE B 418 14.794 22.782 57.238 1.00 21.20 ATOM 7095 CE1 PHE B 418 14.651 22.553 55.888 1.00 22.26 C C 15.364 23.256 54.991 1.00 21.03 ATOM 7097 CZ PHE B 418 \mathbf{C} 16,253 24.168 55.426 1.00 25.19 ATOM 7099 CE2 PHE B 418 16.416 24.399 56.792 1.00 24.41 C ATOM 7101 CD2 PHE B 418 17.735 22.214 59.338 1.00 21.50 C ATOM 7103 C PHE B 418 17.777 21.092 58.865 1.00 20.74 0 ATOM 7104 O PHE B 418 18.829 22.985 59.385 1.00 22.15 ATOM 7105 N PRO B 419 N 20.128 22.466 58.932 1.00 22.23 C ATOM 7106 CA PRO B 419 21.079 23.640 59.163 1.00 22.29 C ATOM 7108 CB PRO B 419 C ATOM 7111 CG PRO B 419 20.393 24.554 60.075 1.00 22.23 18.937 24.383 59.853 1.00 21.84 C ATOM 7114 CD PRO B 419 20.627 21.220 59.697 1.00 22.91 C ATOM 7117 C PRO B 419 ATOM 7118 O PROB 419 21.330 20.411 59.094 1.00 23.03 0 20.300 21.073 60.977 1.00 22.72 N ATOM 7119 N ARG B 420 20.613 19.845 61.697 1.00 23.79 C ATOM 7121 CA ARG B 420 20.217 19.957 63.165 1.00 24.37 C ATOM 7123 CB ARG B 420 21.273 20.495 64.065 1.00 26.49 \mathbf{C} ATOM 7126 CG ARG B 420 C ATOM 7129 CD ARG B 420 20,780 20,749 65,509 1,00 29,34 N 21.635 21.741 66.163 1.00 31.75 ATOM 7132 NE ARG B 420 21.210 22.758 66.920 1.00 34.22 C ATOM 7134 CZ ARG B 420 19.905 22.942 67.170 1.00 35.33 ATOM 7135 NH1 ARG B 420 N 22.105 23.606 67.434 1.00 33.74 N ATOM 7138 NH2 ARG B 420 19.881 18.623 61.109 1.00 23.97 ATOM 7141 C ARG B 420 C ATOM 7142 O ARG B 420 20.459 17.540 61.041 1.00 23.43 0 18.622 18.791 60.702 1.00 24.27 N ATOM 7143 N MET B 421 17.877 17.700 60.048 1.00 25.13 C ATOM 7145 CA MET B 421 ATOM 7147 CB MET B 421 16.444 18.107 59.705 1.00 25.14 C 15.556 18.134 60.884 1.00 26.83 C ATOM 7150 CG MET B 421 14.022 18.916 60.489 1.00 27.49 S ATOM 7153 SD MET B 421 C ATOM 7154 CE MET B 421 13.280 17.711 59.650 1.00 28.40 18.513 17.288 58.750 1.00 25.25 C ATOM 7158 C MET B 421 18.675 16.104 58.484 1.00 25.17 0 ATOM 7159 O MET B 421 18.826 18.266 57.909 1.00 25.68 ATOM 7160 N LEUB 422 N 19.499 17.966 56.641 1.00 25.80 C ATOM 7162 CA LEU B 422 ATOM 7164 CB LEU B 422 19.649 19.214 55.778 1.00 26.08 C 18.371 19.948 55.399 1.00 27.05 \mathbf{C} ATOM 7167 CG LEU B 422 18.758 21.190 54.647 1.00 27.88 ATOM 7169 CD1 LEU B 422 C 17.481 19.094 54.564 1.00 28.81 ATOM 7173 CD2 LEU B 422 C 20.889 17.373 56.870 1.00 24.95 ATOM 7177 C LEUB 422 C ATOM 7178 O LEU B 422 21.352 16.604 56.048 1.00 25.35 0 ATOM 7179 N MET B 423 21.554 17.700 57.972 1.00 23.97 N 22.857 17.078 58.231 1.00 24.01 ATOM 7181 CA MET B 423 C

4 500 1			
		23.519 17.564 59.514 1.00 24.15	C
		24.207 18.886 59.485 1.00 28.02	C
ATOM	7189 SD MET B 423	25.144 19.334 58.028 1.00 33.28	S
ATOM	7190 CE MET B 423	25.917 20.670 58.720 1.00 30.65	С
ATOM	7194 C MET B 423	22.688 15.578 58.382 1.00 22.60	С
ATOM	7195 O MET B 423	23.639 14.832 58.146 1.00 21.75	0
ATOM	7196 N LYS B 424	21.501 15.157 58.837 1.00 21.54	N
ATOM	7198 CA LYS B 424	21.198 13.751 59.030 1.00 21.12	С
ATOM	7200 CB LYS B 424	19.915 13.552 59.845 1.00 21.41	С
ATOM	7203 CG LYS B 424	20.021 14.054 61.302 1.00 22.33	C
ATOM	7206 CD LYS B 424	21.060 13.262 62.112 1.00 24.54	C
ATOM	7209 CE LYS B 424	21.305 13.866 63.503 1.00 26.54	С
ATOM	7212 NZ LYS B 424	22.298 14.993 63.495 1.00 27.45	N
ATOM	7216 C LYS B 424	21.140 13.023 57.710 1.00 20.91	C
ATOM	7217 O LYS B 424	21.461 11.842 57.650 1.00 21.03	O
ATOM	7218 N LEU B 425	20.757 13.717 56.641 1.00 20.67	N
ATOM	7220 CA LEU B 425	20.877 13.152 55.302 1.00 20.64	C
ATOM			Č
ATOM	7225 CG LEU B 425		Č
ATOM	7227 CD1 LEU B 425	18.494 15.237 53.200 1.00 21.86	C
ATOM			Č
ATOM	7235 C LEU B 425	22.320 12.775 54.954 1.00 19.93	C
ATOM	7236 O LEUB 425		Ō
ATOM	7237 N VAL B 426		N
ATOM			C
ATOM	7241 CB VAL B 426		Č
ATOM	7243 CG1 VAL B 426		C
ATOM	7247 CG2 VAL B 426		Č
ATOM	7251 C VAL B 426		C
ATOM	7252 O VAL B 426		Ö
ATOM	7253 N SER B 427		N
ATOM	7255 CA SER B 427		C
ATOM	7257 CB SER B 427	24.455 10.833 59.463 1.00 18.64	Č
ATOM		25.035 11.881 60.182 1.00 19.10	Ö
ATOM	7262 C SER B 427	24.495 9.495 57.412 1.00 18.86	c
ATOM	7263 O SER B 427	25.180 8.487 57.394 1.00 18.35	Ö
ATOM	7264 N LEUB 428	23.283 9.573 56.843 1.00 19.64	N
ATOM	7266 CA LEU B 428	22.650 8.419 56.207 1.00 19.88	C
ATOM	7268 CB LEU B 428	21.240 8.758 55.753 1.00 20.39	Č
ATOM	7271 CG LEU B 428	20.127 8.747 56.783 1.00 22.09	Č
ATOM	7273 CD1 LEU B 428	18.833 9.315 56.137 1.00 24.36	C
ATOM	7277 CD2 LEU B 428	19.876 7.349 57.324 1.00 22.79	Č
ATOM	7281 C LEU B 428	23.433 7.870 55.018 1.00 20.62	C
ATOM	7282 O LEU B 428	23.358 6.662 54.739 1.00 21.52	Ŏ
ATOM	7283 N ARG B 429	24.149 8.726 54.293 1.00 21.02	Ň
	7285 CA ARG B 429	25.036 8.240 53.239 1.00 21.84	C
ATOM	7287 CB ARG B 429	25.705 9.366 52.453 1.00 21.88	Č
ATOM	7290 CG ARG B 429	24.825 10.054 51.493 1.00 22.26	C
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	107		
ATOM	7293 CD ARG B 429 23.955 9.170 50.6	525 1.00 21.65	С
ATOM	7296 NE ARG B 429 22.978 10.041 50.0	001 1.00 22.80	N
ATOM	7298 CZ ARG B 429 23.105 10.605 48.8	806 1.00 22.52	С
ATOM	7299 NH1 ARG B 429 24.158 10.373 48	.037 1.00 21.19	N
ATOM	7302 NH2 ARG B 429 22.125 11.385 48	.368 1.00 24.13	N
ATOM	7305 C ARG B 429 26.138 7.361 53.75	52 1.00 22.42	С
ATOM	7306 O ARG B 429 26.450 6.343 53.13	34 1.00 23.64	0
ATOM	7307 N THR B 430 26.775 7.773 54.83	8 1.00 22.80	N
ATOM	7309 CA THR B 430 27.779 6.922 55.4	48 1.00 22.74	С
ATOM	7311 CB THR B 430 28.429 7.629 56.6	31 1.00 22.93	C
ATOM	7313 OG1 THR B 430 29.214 8.722 56.	144 1.00 24.58	0
ATOM	7315 CG2 THR B 430 29.448 6.722 57.3		Č
ATOM			C
ATOM			Ō
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ATOM			0
ATOM	7349 C SER B 432 25.596 2.445 53.200	5 1.00 23.40	C
ATOM	7350 O SER B 432 25.529 1.299 52.808	8 1.00 23.35	0
ATOM	7351 N SER B 433 26.745 3.092 53.283	3 1.00 24.11	N
ATOM	7353 CA SER B 433 28.005 2.432 53.00	04 1.00 24.80	С
ATOM	7355 CB SER B 433 29.157 3.419 53.08	36 1.00 25.19	С
ATOM	7358 OG SER B 433 29.734 3.573 51.80	07 1.00 30.38	0
ATOM	7360 C SER B 433 28.289 1.311 53.971	1 1.00 24.29	\mathbf{C} .
ATOM			O
	7362 N VAL B 434 28.030 1.565 55.25	2 1.00 24.19	N
	7364 CA VAL B 434 28.243 0.579 56.3	19 1.00 24.22	С
	7366 CB VAL B 434 27.876 1.124 57.73	34 1.00 24.01	C
	7368 CG1 VAL B 434 27.914 0.029 58.7	54 1.00 24.53	С
ATOM	7372 CG2 VAL B 434 28.826 2.247 58.1	54 1.00 24.55	C
ATOM	7376 C VALB 434 27.386 -0.643 56.00	6 1.00 24.42	C
		5 1.00 23.89	0
		1.00 24.53	N
	7380 CA HIS B 435 25.210 -1.450 55.21	2 1.00 24.98	С
	7382 CB HIS B 435 23.836 -0.877 54.873		C
	7385 CG HIS B 435 22.912 -1.859 54.23	1 1.00 24.61	C
	7386 ND1 HIS B 435 22.618 -1.826 52.88		N
ATOM	7388 CEI HIS B 435 21.787 -2.814 52.59		С
ATOM	7390 NE2 HIS B 435 21.526 -3.480 53.70	9 1.00 23.70	N

ATOM 7392 CD2 HIS B 435	22.216 -2.900 54.745 1.00 24.26	C
AMONA	25.714 -2.323 54.074 1.00 25.66	C C
	25.574 -3.530 54.163 1.00 25.03	0
ATOM 7396 N SER B 436	26.304 -1.710 53.035 1.00 26.47	N
ATOM 7398 CA SER B 436	26.938 -2.445 51.933 1.00 27.56	C
ATOM 7400 CB SER B 436	27.575 -1.499 50.901 1.00 27.74	C
ATOM 7403 OG SER B 436	26.626 -1.109 49.928 1.00 32.60	0
ATOM 7405 C SER B 436	28.025 -3.393 52.409 1.00 27.41	c
ATOM 7406 O SER B 436	28.130 -4.493 51.882 1.00 27.40	o
ATOM 7407 N GLU B 437	28.848 -2.949 53.364 1.00 27.71	N
ATOM 7409 CA GLU B 437	29.889 -3.803 53.969 1.00 28.28	C
	30.805 -2.974 54.858 1.00 28.54	C
ATOM 7414 CG GLU B 437	31.727 -2.061 54.072 1.00 32.01	C
ATOM 7417 CD GLU B 437	32.166 -0.823 54.844 1.00 35.77	C
ATOM 7418 OE1 GLU B 437	32.705 0.098 54.190 1.00 39.57	o
ATOM 7419 OE2 GLU B 437	31.993 -0.764 56.092 1.00 38.27	0
ATOM 7420 C GLU B 437	29.317 -4.962 54.804 1.00 27.86	c
ATOM 7421 O GLU B 437	29.912 -6.042 54.876 1.00 27.25	o
ATOM 7422 N GLN B 438	28.171 -4.726 55.439 1.00 27.48	N
ATOM 7424 CA GLN B 438	27.514 -5.770 56.196 1 00 27 48	Ĉ
ATOM 7426 CB GLN B 438	26.391 -5.220 57.085 1.00 27.08	Č
ATOM 7429 CG GLN B 438	25.479 -6.296 57.699 1.00 26.95	C
ATOM 7432 CD GLN B 438	26.181 -7.186 58.720 1.00 27.28	C
ATOM 7433 OE1 GLN B 438	26.237 -6.854 59.897 1.00 28.65	O
ATOM 7434 NE2 GLN B 438	26.701 -8.314 58.274 1.00 26.37	N
ATOM 7437 C GLN B 438	27.010 -6.821 55.197 1.00 27.52	C
ATOM 7438 O GLN B 438	27.304 -8.001 55.372 1.00 26.72	Ö
ATOM 7439 N VALB 439	26.320 -6.403 54.131 1.00 27.61	N
AIOM 7441 CA VAL B 439	25.830 -7.393 53.170 1.00 28.43	C
AIOM 7443 CB VAL B 439	24.717 -6.897 52 113 1 00 28 35	Č
ATOM 7445 CG1 VAL B 439	24.044 -5.589 52.495 1.00 27 55	C
A10M 7449 CG2 VAL B 439	25.229 -6.905 50.676 1.00 28.07	Č
ATOM 7453 C VAL B 439 2	27.004 -8.103 52.487 1.00 28.78	c
ATOM 7454 O VALB 439 2	26.901 -9.259 52.125 1.00 28.52	Ö
ATOM 7455 N PHE B 440 2	8.125 -7.410 52.360 1.00 29.47	N
ATOM 7457 CA PHE B 440	29.305 -7.982 51.740 1.00 30.18	C
ATOM 7459 CB PHE B 440	30.318 -6.877 51.390 1.00 30.52	Č
ATOM 7462 CG PHE B 440	31.606 -7.398 50.836 1.00 31.17	Č
ATOM 7463 CD1 PHE B 440	31.791 -7.513 49.466 1.00 31.37	C
ATOM 7465 CE1 PHE B 440	32.979 -8.019 48.956 1.00 31.90	C
ATOM 7467 CZ PHE B 440	33.998 -8.423 49.821 1.00 32.17	C
ATOM 7469 CE2 PHE B 440	33.824 -8.319 51.191 1.00 32.21	С
ATOM 7471 CD2 PHE B 440	32.632 -7.803 51.696 1.00 31.85	C
ATOM 7473 C PHE B 440 29	9.913 -9.048 52.662 1.00 30.53	С
ATOM 7474 O PHE B 440 30	0.343 -10.100 52.195 1.00 30.16	0
ATOM 7475 N ALA B 441 2	9.925 -8.772 53.968 1.00 31.12	N
ATOM 7477 CA ALAB 441	30.325 -9.745 54.974 1.00 31.30	C
ATOM 7479 CB ALA B 441	30.379 -9.105 56.343 1.00 31.11	C

ATOM	7483 C ALA B 441	29.391 -10.955 54.995 1.00 32.14	С
ATOM	7484 O ALA B 441	29.800 -12.049 55.385 1.00 32.55	Ο
ATOM	7485 N LEUB 442	28.142 -10.771 54.589 1.00 33.22	N
ATOM	7487 CA LEU B 442	27.205 -11.892 54.477 1.00 34.11	С
ATOM	7489 CB LEU B 442	25.758 -11.389 54.314 1.00 33.91	C
ATOM	7492 CG LEU B 442	25.202 -10.628 55.521 1.00 33.90	C
ATOM	7494 CD1 LEU B 442	23.829 -10.068 55.218 1.00 34.88	C
ATOM	7498 CD2 LEU B 442	25.123 -11.505 56.737 1.00 34.60	С
ATOM	7502 C LEUB 442	27.593 -12.841 53.332 1.00 34.73	С
ATOM	7503 O LEUB 442	27.529 -14.056 53.490 1.00 34.28	Ο
ATOM	7504 N ARG B 443	28.002 -12.274 52.198 1.00 35.79	N
ATOM	7506 CA ARG B 443	28.464 -13.057 51.053 1.00 36.82	C
ATOM	7508 CB ARG B 443	28.733 -12.121 49.852 1.00 37.27	С
ATOM	7511 CG ARG B 443	29.850 -12.552 48.893 1.00 39.03	C
ATOM	7514 CD ARG B 443	29.495 -12.486 47.393 1.00 41.01	C
ATOM	7517 NE ARG B 443	30.402 -13.339 46.604 1.00 43.02	N
ATOM	7519 CZ ARG B 443	30.348 -13.500 45.277 1.00 43.98	C
ATOM	7520 NH1 ARG B 443	29.428 -12.865 44.544 1.00 44.15	N
ATOM	7523 NH2 ARG B 443	31.225 -14.303 44.677 1.00 44.00	N
ATOM	7526 C ARG B 443	29.694 -13.903 51.446 1.00 37.30	C
ATOM	7527 O ARG B 443	29.792 -15.085 51.073 1.00 37.31	Ο
ATOM	7528 N LEUB 444	30.601 -13.314 52.229 1.00 37.79	N
ATOM	7530 CA LEU B 444	31.804 -14.014 52.703 1.00 38.36	C
ATOM	7532 CB LEU B 444	32.823 -13.031 53.309 1.00 38.50	C
ATOM	7535 CG LEU B 444	33.483 -11.946 52.437 1.00 39.27	C
ATOM	7537 CD1 LEU B 444	34.650 -11.301 53.198 1.00 39.42	C
ATOM	7541 CD2 LEU B 444	33.967 -12.493 51.093 1.00 39.49	C
ATOM	7545 C LEUB 444	31.501 -15.092 53.743 1.00 38.57	C
ATOM	7546 O LEUB 444	32.320 -15.972 53.946 1.00 38.77	Ο
ATOM	7547 N GLN B 445	30.351 -15.001 54.417 1.00 39.03	N
ATOM	7549 CA GLN B 445	29.935 -15.990 55.421 1.00 39.48	C
	7551 CB GLN B 445	29.267 -15.317 56.630 1.00 39.67	C
ATOM	7554 CG GLN B 445	30.160 -14.414 57.476 1.00 40.48	C
ATOM	7557 CD GLN B 445	29.374 -13.280 58.152 1.00 41.27	C
	7558 OE1 GLN B 445	28.303 -13.508 58.721 1.00 41.73	O
ATOM	7559 NE2 GLN B 445	29.904 -12.062 58.079 1.00 41.86	N
ATOM	7562 C GLN B 445	28.958 -17.022 54.846 1.00 39.62	C
ATOM	7563 O GLN B 445	28.558 -17.953 55.549 1.00 39.83	О
ATOM	7564 N ASP B 446	28.570 -16.856 53.583 1.00 39.69	N
ATOM	7566 CA ASP B 446	27.636 -17.775 52.926 1.00 39.90	C
ATOM	7568 CB ASP B 446	28.171 -19.220 52.986 1.00 40.14	C
	7571 CG ASP B 446	27.722 -20.064 51.805 1.00 40.55	C
	7572 OD1 ASP B 446	27.232 -19.486 50.812 1.00 40.10	0
	7573 OD2 ASP B 446	27.836 -21.315 51.786 1.00 41.94	O
	7574 C ASP B 446	26.218 -17.699 53.518 1.00 39.64	C
	7575 O ASP B 446	25.485 -18.697 53.549 1.00 39.62	0
	7576 N LYS B 447	25.855 -16.507 53.985 1.00 39.29	N
ATOM	7578 CA LYS B 447	24.502 -16.198 54.428 1.00 38.85	C

ATOM	7580 CB LYS B 447	24.538 -15.369 55.721 1.00 38.99	C
ATOM	7583 CG LYS B 447	25.541 -15.927 56.749 1.00 39.99	С
ATOM	7586 CD LYS B 447	25.296 -15.482 58.201 1.00 40.92	С
ATOM	7589 CE LYS B 447	26.096 -16.391 59.168 1.00 41.86	C
ATOM	7592 NZ LYS B 447	26.346 -15.812 60.527 1.00 42.16	N
ATOM	7596 C LYS B 447	23.842 -15.440 53.284 1.00 38.09	C
ATOM	7597 O LYS B 447	24.282 -14.348 52.921 1.00 38.31	Ö
ATOM	7598 N LYS B 448	22.822 -16.044 52.679 1.00 37.06	N
	7600 CA LYS B 448	22.124 -15.429 51.555 1.00 36.00	C
ATOM	7602 CB LYS B 448	21.698 -16.482 50.523 1.00 36.12	Č
ATOM	7605 CG LYS B 448	22.856 -17.241 49.867 1.00 36.81	Č
ATOM	7608 CD LYS B 448	23.688 -16.366 48.905 1.00 37.64	Č
ATOM		25.091 -16.967 48.656 1.00 38.58	C
ATOM	7611 CE LYS B 448	26.200 -16.218 49.345 1.00 38.48	N
ATOM	7614 NZ LYS B 448		C
ATOM	7618 C LYS B 448	20.912 -14.660 52.071 1.00 34.89	0
ATOM	7619 O LYS B 448	20.300 -15.040 53.082 1.00 34.58	N
ATOM	7620 N LEU B 449	20.601 -13.560 51.386 1.00 33.41	C
ATOM	7622 CA LEU B 449	19.396 -12.786 51.648 1.00 32.25	C
ATOM	7624 CB LEU B 449	19.590 -11.327 51.260 1.00 31.84	C
ATOM	7627 CG LEU B 449	20.615 -10.552 52.087 1.00 30.08	
ATOM	7629 CD1 LEU B 449	20.834 -9.203 51.465 1.00 29.32	C
ATOM	7633 CD2 LEU B 449	20.156 -10.419 53.526 1.00 28.15	C
ATOM	7637 C LEUB 449	18.224 -13.360 50.868 1.00 31.93	C
ATOM	7638 O LEUB 449	18.415 -14.044 49.860 1.00 31.97	0
ATOM	7639 N PRO B 450	17.010 -13.083 51.324 1.00 31.45	N
ATOM	7640 CA PRO B 450	15.819 -13.504 50.585 1.00 31.01	C
ATOM	7642 CB PRO B 450	14.675 -13.158 51.544 1.00 31.37	C
ATOM	7645 CG PRO B 450	15.335 -12.895 52.857 1.00 31.77	C
ATOM	7648 CD PRO B 450	16.661 -12.322 52.536 1.00 31.42	C
ATOM	7651 C PROB 450	15.687 -12.698 49.279 1.00 30.32	C
ATOM	7652 O PROB 450	16.112 -11.544 49.270 1.00 29.65	0
ATOM	7653 N PROB 451	15.109 -13.295 48.232 1.00 29.63	N
ATOM	7654 CA PRO B 451	14.930 -12.658 46.920 1.00 29.20	C
ATOM	7656 CB PRO B 451	13.801 -13.496 46.298 1.00 29.78	C
ATOM	7659 CG PRO B 451	14.086 -14.923 46.803 1.00 29.58	C
ATOM		14.618 -14.696 48.221 1.00 30.20	C
ATOM	7665 C PRO B 451	14.589 -11.154 46.846 1.00 28.57	C
ATOM	7666 O PROB 451	15.275 -10.462 46.118 1.00 28.26	О
ATOM	7667 N LEUB 452	13.589 -10.650 47.552 1.00 27.85	N
ATOM	7669 CA LEU B 452	13.300 -9.222 47.473 1.00 27.84	C
ATOM	7671 CB LEU B 452	12.015 -8.872 48.232 1.00 27.62	C
ATOM		11.493 -7.431 48.108 1.00 28.13	C
ATOM	7676 CD1 LEU B 452	10.753 -7.168 46.780 1.00 28.76	C
ATOM	7680 CD2 LEU B 452	10.575 -7.090 49.262 1.00.28.05	C
ATOM	7684 C LEUB 452	14.489 -8.373 47.979 1.00 27.83	С
ATOM		14.794 -7.336 47.399 1.00 27.31	O
ATOM		15.151 -8.816 49.054 1.00 27.69	N
ATOM		16.289 -8.075 49.602 1.00 27.42	С

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ATOM	7690	CB LEU B 453	16.611 -8.523 51.042 1.00 27.10	C
ATOM	7693	CG LEU B 453		C
ATOM		CD1 LEU B 453		С
ATOM	7699	CD2 LEU B 453	14.705 -7.058 51.868 1.00 26.13	C
ATOM	7703	C LEU B 453		C
ATOM	7704	O LEU B 453		О
ATOM	7705			N
ATOM			18.856 -9.680 47.317 1.00 29.60	С
ATOM			18.898 -11.151 46.927 1.00 29.24	C
ATOM	7712	OG SER B 454	20.228 -11.551 46.868 1.00 28.29	O
ATOM	7714	C SER B 454	18.756 -8.833 46.058 1.00 30.98	C
ATOM	7715	O SER B 454	19.738 -8.280 45.598 1.00 30.30	O
ATOM	7716	N GLU B 455	17.546 -8.740 45.531 1.00 33.26	N
ATOM	7718	CA GLU B 455	17.220 -7.905 44.371 1.00 35.66	C
ATOM	7720	CB GLU B 455	15.707 -8.032 44.086 1.00 36.15	С
ATOM	7723	CG GLU B 455	15.263 -7.623 42.691 1.00 39.50	С
ATOM	7726	CD GLU B 455	13.842 -7.056 42.656 1.00 43.95	С
ATOM	7727	OE1 GLU B 455	13.642 -6.051 41.923 1.00 46.30	O
ATOM	7728	OE2 GLU B 455	12.926 -7.600 43.346 1.00 45.31	O
ATOM			17.628 -6.399 44.504 1.00 36.35	C
ATOM	7730	O GLU B 455	18.015 -5.782 43.514 1.00 36.57	О
ATOM	7731	N ILE B 456	17.547 -5.820 45.705 1.00 37.41	N
ATOM	7733	CA ILE B 456	17.870 -4.396 45.900 1.00 38.54	C
ATOM	7735	CB ILE B 456	16.995 -3.754 46.989 1.00 39.45	C
ATOM	7737	CG1 ILE B 456	15.584 -4.278 46.966 1.00 41.19	C
ATOM	7740	CD1 ILE B 456	15.094 -4.432 48.349 1.00 43.54	C
ATOM	7744	CG2 ILE B 456	16.922 -2.233 46.842 1.00 40.69	C
ATOM	7748	C ILE B 456	19.306 -4.145 46.321 1.00 38.55	C
ATOM	7749	O ILE B 456	19.827 -3.078 46.049 1.00 39.13	O
			19.935 -5.098 46.997 1.00 38.56	N
ATOM	7752	CA TRP B 457	21.187 -4.827 47.695 1.00 39.22	C
ATOM	7754	CB TRP B 457	20.997 -5.016 49.196 1.00 38.75	C
ATOM	7757	CG TRP B 457	20.060 -4.069 49.811 1.00 36.02	C
ATOM	7758	CD1 TRP B 457	19.845 -2.783 49.455 1.00 35.13	C
		NE1 TRP B 457		N
		CE2 TRP B 457		C
		CD2 TRP B 457		C
		CE3 TRP B 457		C
		CZ3 TRP B 457	18.079 -5.348 52.766 1.00 35.33	C
		CH2 TRP B 457	17.378 -4.158 52.992 1.00 35.72	C
		CZ2 TRP B 457	17.584 -3.046 52.220 1.00 34.02	С
		C TRP B 457	22.403 -5.652 47.286 1.00 40.58	C
		O TRP B 457	23.519 -5.234 47.550 1.00 40.81	O
		N ASP B 458	22.205 -6.829 46.703 1.00 42.46	N
		CA ASP B 458	23.335 -7.641 46.243 1.00 43.79	С
		CB ASP B 458		C
ATOM		CG ASP B 458		C
ATOM	7782	OD1 ASP B 458	24.152 -10.079 48.149 1.00 43.49	О

ATOM	7783 OD2 ASP B 458	22.071 -9.748 48.421 1.00 43.98	O
ATOM		23.770 -7.230 44.850 1.00 45.14	C
ATOM	7785 O ASP B 458	22.939 -6.973 43.968 1.00 44.86	О
ATOM	7786 N VAL B 459	25.087 -7.166 44.671 1.00 46.62	N
ATOM	7788 CA VAL B 459	25.677 -6.828 43.382 1.00 47.79	C
ATOM	7790 CB VAL B 459		C
ATOM	7792 CG1 VAL B 459	27.761 -5.902 42.224 1.00 48.81	C
ATOM	7796 CG2 VAL B 459	27.396 -5.495 44.724 1.00 48.27	C
ATOM	7800 C VAL B 459	25.448 -8.016 42.420 1.00 48.37	C
ATOM	7801 O VAL B 459	24.879 -7.851 41.330 1.00 48.63	O
ATOM	7802 N ALA B 460	25.866 -9.208 42.851 1.00 48.86	N
ATOM	7804 CA ALA B 460	25.615 -10.453 42.120 1.00 49.35	C
ATOM	7806 CB ALA B 460	24.120 -10.826 42.193 1.00 49.37	C
ATOM	7810 C ALA B 460	26.087 -10.381 40.660 1.00 49.70	C
ATOM	7811 O ALA B 460	27.291 -10.328 40.385 1.00 49.95	O
ATOM	7812 O37 GW3 B 500	8.754 -1.467 61.961 1.00 21.14	O
ATOM	7813 C35 GW3 B 500	8.030 -1.164 60.974 1.00 21.33	C
ATOM	7814 O36 GW3 B 500	6.816 -0.832 61.085 1.00 21.69	0
ATOM	7815 C34 GW3 B 500	8.501 -1.270 59.540 1.00 19.45	С
ATOM	7818 C32 GW3 B 500	10.000 -1.306 59.568 1.00 21.09	C
ATOM	7819 C33 GW3 B 500	10.693 -2.503 59.749 1.00 22.33	C
ATOM	7821 C31 GW3 B 500		C
ATOM	7823 C30 GW3 B 500		C
ATOM	7825 C29 GW3 B 500		C
ATOM	7827 C28 GW3 B 500		C
ATOM	7828 O27 GW3 B 500	12.727 -3.692 60.010 1.00 21.31	О
ATOM	7829 C26 GW3 B 500		С
ATOM	7832 C25 GW3 B 500		С
ATOM	7835 C17 GW3 B 500		C
ATOM	7838 N09 GW3 B 500		N
ATOM	7839 C16 GW3 B 500		C
ATOM	7842 C18 GW3 B 500		C
	7843 C19 GW3 B 500		C
	7844 CL4 GW3 B 500		CL
	7845 C23 GW3 B 500		C
	7847 C22 GW3 B 500		C
ATOM	7849 C21 GW3 B 500		C
	7851 C20 GW3 B 500		C
ATOM	7852 C39 GW3 B 500		C
	7853 F41 GW3 B 500		F
	7854 F40 GW3 B 500		F
	7855 F42 GW3 B 500		F
	7856 C08 GW3 B 500		C
	7859 C07 GW3 B 500		C
_	7861 C01 GW3 B 500		C
ATOM			C
	7864 C03 GW3 B 500		C
ATOM	7866 C04 GW3 B 500	21.241 -2.336 64.672 1.00 16.12	С

ATOM	7868 C05 GW3 B 500	19.972 -1.826 64.807 1.00 14.93	С
ATOM	7870 C06 GW3 B 500		C
ATOM	7872 C10 GW3 B 500	18.269 -2.207 60.620 1.00 15.98	С
ATOM	7873 C11 GW3 B 500	17.241 -1.306 60.395 1.00 15.06	С
ATOM	7875 C12 GW3 B 500	17.289 -0.426 59.333 1.00 15.36	C
ATOM	7877 C13 GW3 B 500	18.370 -0.448 58.464 1.00 16.16	C
ATOM	7879 C14 GW3 B 500	19.398 -1.367 58.689 1.00 16.09	C
ATOM	7881 C15 GW3 B 500	19.359 -2.222 59.771 1.00 13.56	С
ATOM	7883 O4 IOH B 501	6.727 4.693 56.348 1.00 41.79	О
ATOM	7885 C2 IOH B 501	6.928 4.483 54.955 1.00 38.97	С
ATOM	7887 C3 IOH B 501	7.991 5.407 54.403 1.00 37.54	C
ATOM	7891 C1 IOH B 501	7.342 3.044 54.790 1.00 39.36	C
ATOM	7895 N LEU C 220	-3.000 112.946 100.447 1.00 18.87	N
ATOM	7897 CA LEU C 220	-1.866 113.110 101.401 1.00 19.26	С
ATOM	7899 CB LEU C 220	-0.649 113.749 100.719 1.00 19.49	C
ATOM	7902 CG LEU C 220	0.247 112.935 99.763 1.00 19.18	С
ATOM	7904 CD1 LEU C 220	1.325 113.826 99.175 1.00 19.39	C
ATOM	7908 CD2 LEU C 220	0.900 111.790 100.458 1.00 19.53	С
ATOM	7912 C LEU C 220	-2.326 113.981 102.564 1.00 19.20	С
ATOM	7913 O LEU C 220	-2.819 115.092 102.359 1.00 19.47	О
ATOM	7916 N THR C 221	-2.195 113.457 103.781 1.00 18.88	N
ATOM	7918 CA THR C 221	-2.518 114.224 104.981 1.00 18.78	С
ATOM	7920 CB THR C 221	-2.515 113.325 106.227 1.00 18.57	С
ATOM	7922 OG1 THR C 221	-1.232 112.697 106.349 1.00 18.19	Ο
ATOM	7924 CG2 THR C 221	-3.513 112.156 106.089 1.00 17.48	С
ATOM	7928 C THR C 221	-1.479 115.313 105.169 1.00 18.66	C
ATOM	7929 O THR C 221	-0.394 115.246 104.605 1.00 18.69	O
ATOM	7930 N ALA C 222	-1.800 116.290 106.002 1.00 18.45	N
ATOM	7932 CA ALA C 222	-0.899 117.404 106.259 1.00 18.07	С
ATOM	7934 CB ALA C 222	-1.599 118.474 107.099 1.00 18.24	C
ATOM	7938 C ALA C 222	0.395 116.957 106.926 1.00 17.91	С
ATOM	7939 O ALA C 222	1.444 117.542 106.666 1.00 17.31	O
ATOM	7940 N ALA C 223	0.319 115.933 107.784 1.00 17.90	N
ATOM	7942 CA ALA C 223	1.515 115.342 108.397 1.00 18.20	C
ATOM	7944 CB ALA C 223	1.130 114.368 109.535 1.00 18.08	С
ATOM	7948 C ALA C 223	2.421 114.638 107.364 1.00 18.47	С
ATOM	7949 O ALA C 223	3.652 114.679 107.479 1.00 19.33	О
ATOM	7950 N GLN C 224	1.826 114.003 106.367 1.00 18.54	N
ATOM	7952 CA GLN C 224	2.597 113.414 105.265 1.00 19.03	С
ATOM	7954 CB GLN C 224	1.717 112.519 104.392 1.00 18.60	С
ATOM	7957 CG GLN C 224	1.353 111.229 105.093 1.00 18.65	С
ATOM	7960 CD GLN C 224	0.474 110.329 104.247 1.00 18.87	C
ATOM	7961 OE1 GLN C 224	-0.411 110.818 103.525 1.00 19.17	Ο
ATOM	7962 NE2 GLN C 224	0.727 109.009 104.309 1.00 16.75	N
ATOM	7965 C GLN C 224	3.262 114.483 104.407 1.00 19.01	C
	7966 O GLN C 224	4.418 114.355 104.064 1.00 19.36	0
	7967 N GLU C 225	2.532 115.530 104.067 1.00 19.27	N
ATOM		3.083 116.640 103.290 1.00 19.85	С

ATOM	7971 CB GLU C 225	1.989 117.665 102.986 1.00 19.94	C
ATOM	7974 CG GLU C 225	1.021 117.179 101.936 1.00 21.92	С
ATOM	7977 CD GLU C 225	0.001 118.231 101.523 1.00 25.61	С
ATOM	7978 OE1 GLU C 225	-0.425 119.047 102.395 1.00 27.21	O
ATOM	7979 OE2 GLU C 225	-0.399 118.223 100.323 1.00 26.40	O
ATOM	7980 C GLU C 225	4.230 117.336 104.021 1.00 19.69	С
ATOM	7981 O GLU C 225	5.224 117.711 103.415 1.00 19.29	0
ATOM	7982 N LEU C 226	4.052 117.513 105.328 1.00 19.81	N
ATOM	7984 CA LEU C 226	5.056 118.090 106.204 1.00 19.75	C
ATOM	7986 CB LEU C 226	4.534 118.129 107.649 1.00 19.32	C
ATOM	7989 CG LEU C 226	5.504 118.634 108.724 1.00 18.59	C
ATOM	7991 CD1 LEU C 226	5.799 120.123 108.512 1.00 18.72	C
ATOM	7995 CD2 LEU C 226	4.932 118.394 110.102 1.00 18.51	Ċ
ATOM	7999 C LEU C 226	6.336 117.263 106.131 1.00 20.57	C
ATOM	8000 O LEU C 226	7.414 117.797 105.927 1.00 20.55	Ō
ATOM	8001 N MET C 227	6.202 115.956 106.272 1.00 21.50	N
ATOM	8003 CA MET C 227	7.380 115.097 106.323 1.00 23.14	C
ATOM	8005 CB MET C 227	7.050 113.723 106.940 1.00 23.60	Č
ATOM	8008 CG MET C 227	6.822 112.605 105.948 1.00 29.90	Č
ATOM	8011 SD MET C 227	6.915 110.955 106.707 1.00 39.06	S
ATOM	8012 CE MET C 227	5.699 111.169 107.969 1.00 38.81	č
ATOM	8016 C MET C 227	8.083 115.007 104.949 1.00 22.02	c
ATOM	8017 O MET C 227		Ō
ATOM	8018 N ILE C 228	7.318 114.931 103.869 1.00 20.67	N
ATOM	8020 CA ILE C 228	7.885 114.908 102.516 1.00 19.93	C
ATOM	8022 CB ILE C 228	6.793 114.573 101.470 1.00 19.41	Č
ATOM	8024 CG1 ILE C 228	6.298 113.147 101.664 1.00 18.75	C
ATOM	8027 CD1 ILE C 228	4.906 112.910 101.081 1.00 19.38	C
ATOM	8031 CG2 ILE C 228	7.306 114.765 100.055 1.00 19.58	C
ATOM	8035 C ILE C 228	8.580 116.223 102.144 1.00 19.60	C
ATOM	8036 O ILE C 228		0
ATOM	8037 N GLN C 229	7.917 117.361 102.374 1.00 19.12	N
ATOM	8039 CA GLN C 229	8.504 118.681 102.153 1.00 18.52	С
ATOM	8041 CB GLN C 229	7.466 119.810 102.366 1.00 18.93	C
ATOM		6.339 119.892 101.282 1.00 20.68	С
ATOM	8047 CD GLN C 229	5.131 120.826 101.661 1.00 23.87	С
ATOM	8048 OE1 GLN C 229	4.691 121.645 100.845 1.00 24.75	O
	8049 NE2 GLN C 229	4.609 120.687 102.885 1.00 26.71	N
ATOM	8052 C GLN C 229	9.738 118.890 103.042 1.00 17.73	С
ATOM	8053 O GLN C 229	10.683 119.534 102.633 1.00 17.45	O
ATOM	8054 N GLN C 230	9.738 118.332 104.248 1.00 16.98	N
ATOM	8056 CA GLN C 230	10.945 118.321 105.078 1.00 16.64	С
ATOM	8058 CB GLN C 230	10,707 117.558 106.391 1.00 16.42	Ċ
ATOM	8061 CG GLN C 230	11.836 117.685 107.371 1.00 15.46	Č
ATOM	8064 CD GLN C 230	11.893 119.027 108.013 1.00 14.19	Č
	8065 OE1 GLN C 230	11.112 119.916 107.695 1.00 17.78	Ō
ATOM	8066 NE2 GLN C 230	12.827 119.198 108.917 1.00 19.79	N
ATOM	8069 C GLN C 230	12.143 117.666 104.377 1.00 16.24	С

ATOM	8070 O GLN C 230	13.230 118.227 104.372 1.00 15.92	Ο
ATOM	8071 N LEU C 231	11.918 116.481 103.805 1.00 15.98	N
ATOM	8073 CA LEU C 231	12.954 115.694 103.141 1.00 16.11	C
ATOM	8075 CB LEU C 231	12.411 114.320 102.691 1.00 16.41	C
ATOM	8078 CG LEU C 231	12.065 113.304 103.790 1.00 15.91	C
ATOM	8080 CD1 LEU C 231	11.800 111.893 103.219 1.00 15.15	C
ATOM	8084 CD2 LEU C 231	13.170 113.251 104.823 1.00 17.22	С
ATOM	8088 C LEU C 231	13.485 116.430 101.942 1.00 16.02	C
ATOM	8089 O LEU C 231	14.678 116.480 101.726 1.00 16.40	Ο
ATOM	8090 N VAL C 232	12.591 117.047 101.191 1.00 16.32	N
ATOM	8092 CA VAL C 232	12.930 117.678 99.924 1.00 15.86	C
ATOM	8094 CB VAL C 232	11.656 117.989 99.145 1.00 15.91	С
ATOM	8096 CG1 VAL C 232	11.911 118.873 97.916 1.00 15.14	C
ATOM	8100 CG2 VAL C 232	10.979 116.688 98.736 1.00 16.53	C
ATOM	8104 C VAL C 232	13.721 118.933 100.198 1.00 16.07	C
ATOM	8105 O VAL C 232	14.623 119.287 99.448 1.00 15.57	O
ATOM	8106 N ALA C 233	13.384 119.598 101.288 1.00 16.72	N
ATOM	8108 CA ALA C 233	13.974 120.887 101.599 1.00 17.30	С
ATOM	8110 CB ALA C 233	13.088 121.677 102.551 1.00 17.06	C
ATOM	8114 C ALA C 233	15.352 120.678 102.198 1.00 18.01	C
ATOM	8115 O ALA C 233	16.247 121.479 101.957 1.00 18.07	Ο
ATOM	8116 N ALA C 234	15.511 119.608 102.978 1.00 18.89	N
ATOM	8118 CA ALA C 234	16.817 119.210 103.489 1.00 20.13	C
ATOM	8120 CB ALA C 234	16.679 118.070 104.482 1.00 20.02	C
ATOM	8124 C ALA C 234	17.756 118.801 102.355 1.00 21.35	C
ATOM	8125 O ALA C 234	18.930 119.110 102.379 1.00 21.43	О
ATOM	8126 N GLN C 235	17.222 118.093 101.373 1.00 23.22	N
ATOM	8128 CA GLN C 235	17.988 117.635 100.218 1.00 24.76	C
ATOM	8130 CB GLN C 235	17.101 116.786 99.311 1.00 24.76	C
ATOM	8133 CG GLN C 235	17.864 115.909 98.363 1.00 26.38	C
ATOM	8136 CD GLN C 235	16.978 114.874 97.687 1.00 27.51	C
ATOM	8137 OE1 GLN C 235	16.122 115.215 96.865 1.00 28.36	О
ATOM	8138 NE2 GLN C 235	17.191 113.615 98.019 1.00 29.14	N
ATOM	8141 C GLN C 235	18.514 118.837 99.451 1.00 25.74	С
ATOM	8142 O GLN C 235	19.696 118.930 99.185 1.00 25.87	Ο
ATOM	8143 N LEU C 236	17.620 119.771 99.140 1.00 27.09	N
ATOM	8145 CA LEU C 236	17.975 120.996 98.459 1.00 28.40	C
ATOM	8147 CB LEU C 236	16.730 121.850 98.198 1.00 28.61	С
ATOM	8150 CG LEU C 236	16.998 123.063 97.296 1.00 29.58	C
ATOM	8152 CD1 LEU C 236	17.126 122.638 95.812 1.00 29.51	С
ATOM	8156 CD2 LEU C 236	15.934 124.145 97.481 1.00 29.96	C
ATOM	8160 C LEU C 236	18.997 121.809 99.246 1.00 29.64	C
ATOM	8161 O LEU C 236	19.898 122.392 98.652 1.00 29.50	0
ATOM	8162 N GLN C 237	18.853 121.844 100.569 1.00 30.95	N
ATOM		19.717 122.657 101.421 1.00 32.29	C
	8166 CB GLN C 237	19.109 122.819 102.829 1.00 32.69	C
	8169 CG GLN C 237	18.026 123.911 102.926 1.00 34.37	C
ATOM	8172 CD GLN C 237	17.703 124.358 104.366 1.00 36.57	C

ATOM	8173 OE1 GLN C 237	18.165 123.763 105.354 1.00 37.85	Ο
ATOM	8174 NE2 GLN C 237	16.912 125.420 104.474 1.00 36.78	N
ATOM	8177 C GLN C 237	21.110 122.042 101.515 1.00 33.08	C
ATOM	8178 O GLN C 237	22.104 122.759 101.564 1.00 32.91	О
ATOM	8179 N CYS C 238	21.161 120.711 101.522 1.00 34.30	N
ATOM	8181 CA CYS C 238	22.404 119.959 101.674 1.00 35.29	C
ATOM	8183 CB CYS C 238	22.130 118.495 102.050 1.00 35.18	C
ATOM	8186 SG CYS C 238	21.945 118.233 103.840 1.00 36.28	S
ATOM	8187 C CYS C 238	23.215 120.026 100.398 1.00 36.15	C
ATOM	8188 O CYS C 238	24.426 120.198 100.446 1.00 36.59	О
ATOM	8189 N ASN C 239	22.539 119.924 99.260 1.00 37.18	N
ATOM	8191 CA ASN C 239	23.199 119.984 97.955 1.00 38.14	С
ATOM		22.407 119.148 96.918 1.00 38.24	С
ATOM	8196 CG ASN C 239	22.074 119.921 95.658 1.00 39.13	С
ATOM	8197 OD1 ASN C 239	20.957 120.427 95.500 1.00 39.88	O
ATOM	8198 ND2 ASN C 239	23.046 120.017 94.748 1.00 39.76	Ν
ATOM	8201 C ASN C 239	23.484 121.448 97.498 1.00 38.61	С
ATOM	8202 O ASN C 239	24.366 121.689 96.666 1.00 38.64	O
ATOM	8203 N LYS C 240	22.757 122.411 98.070 1.00 39.15	N
ATOM		23.052 123.841 97.901 1.00 39.51	С
ATOM	8207 CB LYS C 240	21.867 124.704 98.381 1.00 39.54	С
ATOM	8210 CG LYS C 240	22.137 126.215 98.547 1.00 39.40	C
ATOM		20.992 126.934 99.298 1.00 39.36	C
ATOM		21.499 127.786 100.484 1.00 39.27	C
ATOM		22.193 129.051 100.069 1.00 37.35	N
ATOM		24.325 124.188 98.681 1.00 39.89	C
ATOM		25.037 125.136 98.334 1.00 39.84	Ō
ATOM		24.608 123.397 99.718 1.00 40.30	N
ATOM	8227 CA ARG C 241	25.792 123.575 100.564 1.00 40.69	C
ATOM	8229 CB ARG C 241	25.636 122.759 101.864 1.00 40.77	Č
ATOM		26.249 123.401 103.111 1.00 41.52	Č
ATOM		25.525 123.062 104.433 1.00 42.15	Č
	8238 NE ARG C 241	24.353 123.917 104.653 1.00 43.09	N
ATOM		24.387 125.216 104.988 1.00 44.14	C
ATOM		25.543 125.864 105.164 1.00 44.34	N
ATOM		23.244 125.881 105.147 1.00 44.22	N
ATOM		27.115 123.201 99.869 1.00 40.77	C
ATOM		28.187 123.438 100.425 1.00 40.80	Ō
	8249 N SER C 242	27.032 122.620 98.668 1.00 41.06	N
ATOM		28.210 122.219 97.882 1.00 41.04	C
ATOM		28.141 120.723 97.598 1.00 41.11	Č
ATOM		27.716 120.028 98.761 1.00 40.52	0
ATOM		28.383 122.981 96.559 1.00 41.14	C
ATOM		29.381 122.784 95.860 1.00 41.28	Õ
ATOM		27.417 123.831 96.210 1.00 41.19	N
ATOM		27.605 124.812 95.134 1.00 41.30	C
ATOM		26.339 125.665 94.910 1.00 41.49	č
ATOM		25.168 124.930 94.268 1.00 42.57	Č
A I OIVI	0207 CO TILE C 243	23.100 124.730 74.200 1.00 42.37	\sim

ATOM	8268 CD1 PHE C 243	25.188 123.547 94.038 1.00 43.04	C
	8270 CE1 PHE C 243	24.091 122.905 93.457 1.00 43.24	C
ATOM	8272 CZ PHE C 243	22.962 123.636 93.103 1.00 43.20	С
ATOM	8274 CE2 PHE C 243	22.927 125.007 93.328 1.00 43.18	С
	8276 CD2 PHE C 243	24.024 125.646 93.906 1.00 43.10	С
ATOM	8278 C PHE C 243	28.756 125.755 95.506 1.00 40.99	С
ATOM	8279 O PHE C 243	29.512 126.199 94.635 1.00 41.16	0
ATOM	8280 N SER C 244	28.863 126.054 96.805 1.00 40.55	N
ATOM		29.876 126.974 97.349 1.00 40.11	C
ATOM		29.395 127.581 98.681 1.00 40.14	C
ATOM		28.665 126.642 99.463 1.00 40.31	O
ATOM		31.255 126.328 97.544 1.00 39.56	С
ATOM	8290 O SER C 244	32.270 127.029 97.554 1.00 39.45	O
ATOM	8291 N ASP C 245	31.282 125.001 97.699 1.00 38.94	N
ATOM			С
	8295 CB ASP C 245		C
	8298 CG ASP C 245	31.840 123.336 100.166 1.00 38.21	C
ATOM	8299 OD1 ASP C 245	32.144 124.445 100.661 1.00 37.96	O
	8300 OD2 ASP C 245	31.190 122.543 100.882 1.00 37.27	O
	8301 C ASP C 245	33.187 123.834 96.520 1.00 37.78	C
ATOM		34.162 123.085 96.507 1.00 37.74	O
ATOM	8303 N GLN C 246	32.659 124.335 95.404 1.00 37.07	N
ATOM		33.203 124.045 94.069 1.00 36.48	C
	8307 CB GLN C 246	32.240 124.531 92.973 1.00 36.56	C
ATOM		31.620 123.413 92.153 1.00 36.81	C
	8313 CD GLN C 246	30.925 123.916 90.898 1.00 37.34	C
	8314 OE1 GLN C 246	31.495 124.698 90.133 1.00 37.73	Ο
ATOM	8315 NE2 GLN C 246	29.696 123.468 90.684 1.00 36.99	N
ATOM	8318 C GLN C 246	34.600 124.624 93.789 1.00 35.79	C
ATOM	8319 O GLN C 246	35.441 123.930 93.215 1.00 35.64	О
ATOM	8320 N PRO C 247		N
ATOM	8321 CA PRO C 247	36.138 126.525 93.844 1.00 34.39	C
ATOM	8323 CB PRO C 247	35.916 128.005 94.218 1.00 34.46	C
	8326 CG PRO C 247	34.498 128.134 94.692 1.00 34.61	C
ATOM	8329 CD PRO C 247	33.962 126.776 94.927 1.00 34.91	С
ATOM	8332 C PRO C 247	37.370 125.961 94.581 1.00 33.70	С
ATOM	8333 O PRO C 247	38.491 126.285 94.168 1.00 33.73	O
ATOM	8334 N LYS C 248	37.172 125.159 95.634 1.00 32.78	N
ATOM	8336 CA LYS C 248	38.282 124.559 96.383 1.00 31.98	C
ATOM	8338 CB LYS C 248	38.239 124.984 97.857 1.00 31.98	С
ATOM	8341 CG LYS C 248	38.585 126.457 98.091 1.00 31.80	C
ATOM	8344 CD LYS C 248	40.083 126.732 97.993 1.00 31.11	С
ATOM	8347 CE LYS C 248	40.354 128.051 97.282 1.00 31.01	С
ATOM	8350 NZ LYS C 248	41.728 128.557 97.541 1.00 30.77	N
	8354 C LYS C 248	38.274 123.037 96.264 1.00 31.22	C
	8355 O LYS C 248	38.158 122.320 97.259 1.00 31.21	O
-	8356 N VAL C 249	38.374 122.567 95.025 1.00 30.37	N
ATOM	8358 CA VAL C 249	38.574 121.151 94.713 1.00 29.85	С

ATOM	8360	CB VAL C 249	37.283 120.514 94.110 1.00 29.80	С
ATOM	8362	CG1 VAL C 249	37.490 119.038 93.774 1.00 29.53	С
ATOM	8366	CG2 VAL C 249	36.102 120.671 95.066 1.00 29.75	C
ATOM	8370	C VAL C 249	39.729 121.052 93.716 1.00 29.44	C
ATOM	8371	O VAL C 249	40.034 122.026 93.027 1.00 29.48	О
ATOM	8372	N THR C 250	40.387 119.897 93.650 1.00 28.90	N
ATOM	8374	CA THR C 250	41.409 119.664 92.633 1.00 28.57	С
ATOM	8376	CB THR C 250	41.937 118.215 92.714 1.00 28.56	C
ATOM	8378	OG1 THR C 250	42.623 118.016 93.955 1.00 28.79	О
ATOM	8380	CG2 THR C 250	43.017 117.951 91.661 1.00 28.45	С
ATOM	8384	C THR C 250	40.786 119.916 91.259 1.00 28.27	C
ATOM	8385	O THR C 250	39.830 119.224 90.902 1.00 28.29	О
ATOM	8386	N PRO C 251	41.284 120.911 90.509 1.00 27.77	N
ATOM	8387	CA PRO C 251	40.749 121.209 89.169 1.00 27.44	C
ATOM	8389	CB PRO C 251	41.597 122.408 88.698 1.00 27.49	С
ATOM	8392	CG PRO C 251	42.210 122.975 89.924 1.00 27.63	С
ATOM	8395	CD PRO C 251	42.374 121.835 90.876 1.00 27.77	С
ATOM	8398	C PRO C 251	40.902 120.034 88.199 1.00 27.10	C
ATOM	8399	O PRO C 251	42.026 119.563 87.992 1.00 27.15	O
ATOM	8400	N TRP C 252	39.791 119.586 87.615 1.00 26.58	N
ATOM	8402	CA TRP C 252	39.769 118.400 86.751 1.00 26.32	C
ATOM	8404	CB TRP C 252	38.529 118.429 85.843 1.00 26.17	С
ATOM	8407	CG TRP C 252	38.481 117.305 84.848 1.00 26.16	С
ATOM	8408	CD1 TRP C 252	38.671 117.394 83.495 1.00 26.45	C
ATOM	8410	NE1 TRP C 252	38.563 116.152 82.917 1.00 26.21	N
ATOM	8412	CE2 TRP C 252	38.304 115.230 83.896 1.00 26.08	С
ATOM	8413	CD2 TRP C 252	38.252 115.924 85.126 1.00 25.85	С
ATOM	8414	CE3 TRP C 252	38.000 115.195 86.293 1.00 26.34	С
ATOM	8416	CZ3 TRP C 252	37.806 113.825 86.201 1.00 26.27	C
ATOM	8418	CH2 TRP C 252	37.868 113.167 84.962 1.00 26.42	C
ATOM	8420	CZ2 TRP C 252	38.114 113.851 83.803 1.00 26.19	С
ATOM	8422	C TRP C 252	41.055 118.218 85.919 1.00 26.10	С
ATOM	8423	O TRP C 252	41.200 118.760 84.825 1.00 25.72	О
ATOM	8424	N ARG C 264	45.285 110.592 85.368 1.00 20.90	N
ATOM	8426	CA ARG C 264	44.717 109.405 85.998 1.00 20.95	С
ATOM	8428	CB ARG C 264	45.561 108.170 85.664 1.00 21.07	C
ATOM	8431	CG ARG C 264	45.200 107.505 84.337 1.00 21.24	C
ATOM	8434	CD ARG C 264	44.318 106.252 84.458 1.00 21.59	C
ATOM	8437	NE ARG C 264	44.886 105.110 83.734 1.00 21.88	N
ATOM	8439	CZ ARG C 264	44.195 104.060 83.278 1.00 21.84	C
ATOM	8440	NH1 ARG C 264	42.878 103.963 83.459 1.00 21.38	N
ATOM	8443	NH2 ARG C 264	44.837 103.089 82.630 1.00 21.63	N
ATOM	8446	C ARG C 264	44.615 109.579 87.513 1.00 20.92	C
ATOM	8447	O ARG C 264	43.539 109.401 88.095 1.00 20.89	Ο
ATOM	8448	N GLN C 265	45.735 109.931 88.142 1.00 20.82	N
ATOM	8450	CA GLN C 265	45.805 110.075 89.601 1.00 20.79	С
ATOM	8452	CB GLN C 265	47.218 109.772 90.117 1.00 20.82	C
ATOM	8455	CG GLN C 265	47.861 108.481 89.567 1.00 20.84	С

ATOM	8458 CD GLN C 265	47.704 107.288 90.497 1.00 20.48	C
ATOM	8459 OE1 GLN C 265	46.649 107.105 91.114 1.00 19.44	О
ATOM	8460 NE2 GLN C 265	48.753 106.474 90.597 1.00 19.51	N
ATOM	8463 C GLN C 265	45.376 111.476 90.055 1.00 20.74	С
ATOM	8464 O GLN C 265	44.912 111.650 91.183 1.00 20.71	О
ATOM	8465 N GLN C 266	45.537 112.465 89.174 1.00 20.57	N
ATOM	8467 CA GLN C 266	45.069 113.830 89.426 1.00 20.43	С
ATOM	8469 CB GLN C 266	45.622 114.792 88.371 1.00 20.43	C
ATOM	8472 CG GLN C 266	47.155 114.861 88.305 1.00 20.22	C
ATOM	8475 CD GLN C 266	47.657 115.901 87.323 1.00 19.98	С
ATOM	8476 OE1 GLN C 266	48.641 115.671 86.617 1.00 20.15	О
ATOM	8477 NE2 GLN C 266	46.990 117.048 87.277 1.00 19.72	N
ATOM	8480 C GLN C 266	43.545 113.891 89.401 1.00 20.42	C
ATOM	8481 O GLN C 266	42.934 114.711 90.089 1.00 20.27	О
ATOM	8482 N ARG C 267	42.949 113.027 88.580 1.00 20.42	N
ATOM	8484 CA ARG C 267	41.499 112.910 88.461 1.00 20.37	C
ATOM	8486 CB ARG C 267	41.107 112.392 87.071 1.00 20.42	C
ATOM	8489 CG ARG C 267	41.586 113.274 85.908 1.00 20.99	C
ATOM	8492 CD ARG C 267	42.687 112.641 85.035 1.00 20.90	С
ATOM	8495 NE ARG C 267	42.895 113.349 83.768 1.00 20.87	N
ATOM	8497 CZ ARG C 267	42.056 113.328 82.731 1.00 20.65	C
ATOM	8498 NH1 ARG C 267		N
ATOM	8501 NH2 ARG C 267		N
ATOM	8504 C ARG C 267	40.938 111.982 89.533 1.00 20.31	C
ATOM	8505 O ARG C 267	39.763 112.091 89.896 1.00 20.33	0
ATOM	8506 N PHE C 268	41.772 111.075 90.040 1.00 20.11	N
ATOM	8508 CA PHE C 268	41.390 110.250 91.182 1.00 19.98	C
ATOM	8510 CB PHE C 268	42.315 109.039 91.341 1.00 20.00	C
ATOM	8513 CG PHE C 268	41.736 107.952 92.207 1.00 20.22	C
ATOM	8514 CD1 PHE C 268	40.581 107.276 91.816 1.00 20.27	С
ATOM	8516 CE1 PHE C 268	40.033 106.277 92.615 1.00 20.27	C
ATOM	8518 CZ PHE C 268	40.635 105.946 93.824 1.00 20.50	С
ATOM		41.791 106.612 94.227 1.00 20.51	С
	8522 CD2 PHE C 268	42.333 107.611 93.421 1.00 20.26	С
	8524 C PHE C 268	41.381 111.091 92.461 1.00 19.85	C
	8525 O PHE C 268	40.639 110.801 93.387 1.00 19.72	0
	8526 N ALA C 269	42.207 112.133 92.500 1.00 19.78	N
	8528 CA ALA C 269	42.180 113.105 93.589 1.00 19.64	C
ATOM	8530 CB ALA C 269	43.423 113.990 93.541 1.00 19.62	C
ATOM	8534 C ALA C 269	40.921 113.957 93.475 1.00 19.48	C
ATOM	8535 O ALA C 269	40.405 114.459 94.471 1.00 19.39	О
ATOM		40.440 114.119 92.246 1.00 19.23	N
	8538 CA HIS C 270	39.238 114.888 91.978 1.00 19.12	C
	8540 CB HIS C 270	39.206 115.315 90.512 1.00 19.16	С
	8543 CG HIS C 270	38.099 116.264 90.199 1.00 19.71	С
	8544 ND1 HIS C 270	38.089 117.564 90.652 1.00 20.24	N
ATOM		36.985 118.160 90.239 1.00 20.68	С
ATOM	8548 NE2 HIS C 270	36.277 117.290 89.541 1.00 20.51	N

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ATOM	8550 CD2 HIS C 270	36.948 116.093 89.509 1.00 19.93	C
ATOM	8552 C HIS C 270	37.965 114.111 92.336 1.00 18.88	C
ATOM	8553 O HIS C 270	37.127 114.609 93.081 1.00 18.65	Ο
		37.835 112.896 91.803 1.00 18.69	N
ATOM	8556 CA PHE C 271	36.668 112.035 92.044 1.00 18.42	C
ATOM	8558 CB PHE C 271	36.775 110.735 91.226 1.00 18.48	С
ATOM	8561 CG PHE C 271	36.122 110.799 89.872 1.00 18.10	С
ATOM	8562 CD1 PHE C 271	36.888 110.860 88.719 1.00 17.95	C
ATOM	8564 CE1 PHE C 271	36.289 110.908 87.468 1.00 18.02	С
ATOM	8566 CZ PHE C 271	34.914 110.887 87.359 1.00 18.02	C
ATOM	8568 CE2 PHE C 271	34.135 110.813 88.504 1.00 17.76	С
ATOM	8570 CD2 PHE C 271	34.742 110.764 89.750 1.00 17.92	С
ATOM	8572 C PHE C 271	36.523 111.669 93.522 1.00 18.29	С
ATOM	8573 O PHE C 271	35.416 111.524 94.022 1.00 18.03	О
ATOM			N
ATOM	8576 CA THR C 272	37.685 111.099 95.603 1.00 18.31	С
ATOM		39.091 110.549 95.983 1.00 18.17	C
	8580 OG1 THR C 272		0
ATOM	8582 CG2 THR C 272		C
ATOM	8586 C THR C 272	37.265 112.233 96.541 1.00 18.28	C
ATOM	8587 O THR C 272	36.596 111.987 97.546 1.00 18.32	0
ATOM			N
	8590 CA GLU C 273	37.298 114.644 97.002 1.00 18.23	C
ATOM	8592 CB GLU C 273	38.113 115.878 96.570 1.00 18.38	C
ATOM		39.536 115.927 97.123 1.00 18.56	C
	8598 CD GLU C 273	40.359 117.064 96.531 1.00 20.02	C
ATOM	8599 OE1 GLU C 273		0
ATOM	8600 OE2 GLU C 273		0
ATOM	8601 C GLU C 273	35.801 114.918 96.886 1.00 18.09	C
ATOM	8602 O GLU C 273		0
ATOM	8603 N LEU C 274		N
ATOM		33.791 114.713 95.492 1.00 17.64	C
ATOM		33.456 114.518 94.016 1.00 17.55	C
	8610 CG LEU C 274	33.964 115.597 93.066 1.00 17.32	C
	8612 CD1 LEU C 274		C
	8616 CD2 LEU C 274		C
	8620 C LEU C 274	33.013 113.683 96.293 1.00 17.56	С
	8621 O LEU C 274	31.890 113.948 96.704 1.00 17.68	O
ATOM		33.600 112.503 96.481 1.00 17.44	N
ATOM		32.977 111.439 97.266 1.00 17.50	C
ATOM		33.681 110.105 97.010 1.00 17.41	C
ATOM		32.979 111.777 98.766 1.00 17.56	C
ATOM		32.071 111.395 99.476 1.00 17.28	0
ATOM		34.006 112.489 99.226 1.00 17.77	N
	8634 CA ILE C 276	34.086 112.970 100.603 1.00 18.09	C
ATOM		35.524 113.513 100.918 1.00 18.03	C
ATOM		36.571 112.390 100.870 1.00 17.64	C
ATOM	8641 CD1 ILE C 276	37.972 112.880 100.503 1.00 16.29	С

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ATOM	8645 CG2 ILE C 276	35.581 114.201 102.279 1.00 18.02	С
ATOM	8649 C ILE C 276	33.035 114.066 100.849 1.00 18.55	С
ATOM	8650 O ILE C 276	32.465 114.139 101.940 1.00 19.12	0
ATOM	8651 N ILE C 277	32.788 114.909 99.842 1.00 18.93	N
ATOM	8653 CA ILE C 277	31.794 115.992 99.930 1.00 18.94	С
ATOM	8655 CB ILE C 277	31.920 116.946 98.719 1.00 18.90	C
ATOM	8657 CG1 ILE C 277	33.142 117.847 98.880 1.00 18.98	C
ATOM	8660 CD1 ILE C 277	33.605 118.494 97.580 1.00 19.40	Č
ATOM	8664 CG2 ILE C 277	30.675 117.811 98.572 1.00 19.13	Č
ATOM	8668 C ILE C 277	30.386 115.414 99.994 1.00 19.04	C
ATOM	8669 O ILE C 277	29.513 115.930 100.698 1.00 18.75	O
ATOM	8670 N SER C 278	30.188 114.337 99.237 1.00 19.30	N
ATOM	8672 CA SER C 278	28.929 113.597 99.207 1.00 19.22	C
ATOM	8674 CB SER C 278	28.970 112.576 98.068 1.00 18.81	Č
ATOM	8677 OG SER C 278	27.859 111.716 98.118 1.00 18.64	Ö
	8679 C SER C 278	28.641 112.907 100.549 1.00 19.34	Č
ATOM	8680 O SER C 278	27.498 112.856 100.984 1.00 19.25	Ö
ATOM	8681 N VAL C 279	29.680 112.393 101.203 1.00 19.70	N
ATOM			C
ATOM	8683 CA VAL C 279		C
ATOM	8685 CB VAL C 279		C
ATOM	8687 CG1 VAL C 279		C
ATOM	8691 CG2 VAL C 279		
ATOM	8695 C VAL C 279	29.151 112.822 103.614 1.00 20.30	C
ATOM	8696 O VAL C 279	28.395 112.498 104.535 1.00 20.11	0
ATOM	8697 N GLN C 280	29.670 114.047 103.491 1.00 20.49	N
ATOM	8699 CA GLN C 280	29.314 115.138 104.396 1.00 20.66	C
ATOM	8701 CB GLN C 280	30.201 116.365 104.155 1.00 20.88	C
ATOM	8704 CG GLN C 280		C
ATOM	8707 CD GLN C 280		C
ATOM	8708 OE1 GLN C 280		0
ATOM	8709 NE2 GLN C 280		N
ATOM	8712 C GLN C 280	27.840 115.506 104.233 1.00 20.80	C
ATOM	8713 O GLN C 280	27.099 115.550 105.215 1.00 20.77	0
ATOM	8714 N GLUC 281	27.417 115.745 102.991 1.00 20.96	N
ATOM	8716 CA GLU C 281	26.015 116.037 102.670 1.00 20.77	C
ATOM		25.820 116.136 101.165 1.00 20.94	C
ATOM	8721 CG GLU C 281	26.267 117.446 100.558 1.00 22.11	C
ATOM	8724 CD GLU C 281	26.179 117.440 99.041 1.00 23.98	C
ATOM	8725 OE1 GLU C 281	25.462 116.585 98.477 1.00 23.39	O
ATOM	8726 OE2 GLU C 281	26.852 118.288 98.409 1.00 25.90	O
ATOM	8727 C GLU C 281	25.072 114.962 103.176 1.00 20.66	С
ATOM	8728 O GLU C 281	24.012 115.273 103.703 1.00 20.93	Ο
ATOM	8729 N ILE C 282	25.456 113.703 103.003 1.00 20.10	N
ATOM	8731 CA ILE C 282	24.625 112.581 103.424 1.00 20.08	С
ATOM	8733 CB ILE C 282	25.168 111.241 102.838 1.00 19.67	C
ATOM	8735 CG1 ILE C 282	24.892 111.181 101.326 1.00 20.08	С
ATOM	8738 CD1 ILE C 282	25.763 110.181 100.558 1.00 18.91	C
ATOM	8742 CG2 ILE C 282	24.530 110.039 103.508 1.00 19.32	C

ATOM	8746 C ILE C 282	24.471 112.522 104.958 1.00 20.40	C
ATOM	8747 O ILE C 282	23.381 112.236 105.455 1.00 20.50	O
ATOM	8748 N VAL C 283	25.538 112.797 105.705 1.00 20.21	N
ATOM	8750 CA VAL C 283	25.423 112.833 107.154 1.00 20.27	С
ATOM	8752 CB VAL C 283	26.806 112.938 107.867 1.00 20.52	С
ATOM	8754 CG1 VAL C 283	26.633 113.169 109.379 1.00 20.58	С
ATOM			C
ATOM		24.534 114.009 107.556 1.00 20.22	C
ATOM	8763 O VAL C 283	23.676 113.865 108.419 1.00 20.19	Ο
ATOM	8764 N ASP C 284	24.731 115.167 106.930 1.00 20.08	N
ATOM	8766 CA ASP C 284	23.940 116.339 107.276 1.00 20.18	C
ATOM	8768 CB ASP C 284	24.420 117.573 106.530 1.00 20.38	C
ATOM	8771 CG ASP C 284	25.716 118.093 107.058 1.00 21.04	С
ATOM		26.314 118.964 106.387 · 1.00 22.47	Ο
ATOM		26.217 117.690 108.132 1.00 23.11	Ο
ATOM	8774 C ASP C 284	22.473 116.103 106.965 1.00 20.14	С
ATOM	8775 O ASP C 284	21.614 116.437 107.772 1.00 19.94	Ο
ATOM	8776 N PHE C 285	22.206 115.515 105.803 1.00 19.83	N
ATOM		20.852 115.144 105.409 1.00 20.41	C
ATOM		20.817 114.581 103.973 1.00 20.04	C
ATOM		19.473 114.040 103.557 1.00 19.95	С
ATOM		18.520 114.868 102.973 1.00 21.97	C
ATOM		17.260 114.370 102.591 1.00 20.13	C
ATOM	8788 CZ PHE C 285	16.954 113.049 102.813 1.00 20.23	C
ATOM	8790 CE2 PHE C 285	17.895 112.212 103.409 1.00 19.22	C
ATOM	8792 CD2 PHE C 285	19.142 112.711 103.779 1.00 19.53	С
ATOM	8794 C PHE C 285	20.220 114.150 106.407 1.00 21.03	C
ATOM	8795 O PHE C 285	19.068 114.320 106.798 1.00 21.37	O
ATOM	8796 N ALA C 286	20.960 113.141 106.844 1.00 21.81	N
ATOM		20.373 112.111 107.709 1.00 22.58	C
ATOM	8800 CB ALA C 286	21.329 110.961 107.908 1.00 22.49	C
ATOM	8804 C ALA C 286	19.932 112.678 109.058 1.00 22.87	С
	8805 O ALA C 286	18.931 112.253 109.613 1.00 22.86	Ο
	8806 N LYS C 287	20.655 113.663 109.564 1.00 23.73	N
ATOM	8808 CA LYS C 287	20.316 114.248 110.865 1.00 24.44	C
ATOM	8810 CB LYS C 287	21.479 115.080 111.405 1.00 24.36	С
ATOM	8813 CG LYS C 287	22.745 114.257 111.706 1.00 25.81	С
ATOM	8816 CD LYS C 287	23.046 114.156 113.222 1.00 28.99	C
ATOM	8819 CE LYS C 287	24.542 114.338 113.566 1.00 30.19	C
ATOM	8822 NZ LYS C 287	25.172 113.101 114.155 1.00 30.71	N
ATOM	8826 C LYS C 287	19.016 115.071 110.802 1.00 24.58	C
ATOM	8827 O LYS C 287	18.347 115.255 111.820 1.00 24.92	O
ATOM	8828 N GLN C 288	18.666 115.526 109.601 1.00 24.74	N
ATOM		17.427 116.262 109.343 1.00 24.96	C
ATOM		17.668 117.333 108.265 1.00 24.98	C
ATOM		18.403 118.574 108.803 1.00 27.94	С
ATOM		19.032 119.438 107.711 1.00 31.20	С
	8839 OE1 GLN C 288	18.397 120.370 107.199 1.00 34.35	О

ATOM	8840	NE2 GLN C 288	20.282 119.139 107.362 1.00 32.82	N
ATOM	8843	C GLN C 288	16.240 115.366 108.946 1.00 24.43	С
ATOM	8844	O GLN C 288	15.141 115.880 108.780 1.00 24.51	Ο
ATOM		N VAL C 289	16.459 114.057 108.763 1.00 23.60	N
ATOM	8847	CA VAL C 289	15.357 113.121 108.516 1.00 23.06	C
ATOM	8849	CB VAL C 289	15.836 111.779 107.893 1.00 22.95	C
ATOM	8851	CG1 VAL C 289	14.699 110.780 107.756 1.00 21.64	C
ATOM	8855	CG2 VAL C 289	16.447 112.015 106.525 1.00 22.73	C
ATOM	8859	C VAL C 289	14.640 112.873 109.832 1.00 23.03	C
ATOM	8860	O VAL C 289	15.253 112.367 110.771 1.00 23.09	O
ATOM	8861	N PRO C 290	13.375 113.293 109.944 1.00 22.96	N
ATOM	8862	CA PRO C 290	12.570 113.027 111.150 1.00 22.76	С
ATOM	8864	CB PRO C 290	11.154 113.499 110.731 1.00 22.83	C
ATOM	8867	CG PRO C 290	11.430 114.619 109.764 1.00 22.49	C
ATOM	8870	CD PRO C 290	12.621 114.123 108.987 1.00 23.43	C
ATOM	8873	C PRO C 290	12.567 111.554 111.590 1.00 21.65	C
ATOM	8874	O PRO C 290	12.309 110.663 110.788 1.00 21.39	О
ATOM	8875	N GLY C 291	12.882 111.321 112.860 1.00 20.79	N
ATOM	8877	CA GLY C 291	13.035 109.984 113.398 1.00 20.41	C
ATOM	8880	C GLY C 291	14.489 109.614 113.646 1.00 20.14	C
ATOM	8881	O GLY C 291	14.763 108.826 114.547 1.00 20.00	Ο
ATOM	8882	N PHE C 292	15.414 110.179 112.866 1.00 20.14	N
ATOM	8884	CA PHE C 292	16.824 109.792 112.928 1.00 20.37	C
ATOM	8886	CB PHE C 292	17.650 110.499 111.854 1.00 20.24	С
ATOM	8889	CG PHE C 292	19.063 109.980 111.738 1.00 19.88	C
ATOM	8890	CD1 PHE C 292	19.313 108.730 111.194 1.00 19.73	C
ATOM	8892	CE1 PHE C 292	20.623 108.228 111.082 1.00 20.95	C
ATOM	8894	CZ PHE C 292	21.699 108.993 111.528 1.00 22.41	C
ATOM	8896	CE2 PHE C 292	21.454 110.268 112.078 1.00 22.39	C
ATOM	8898	CD2 PHE C 292	20.139 110.750 112.172 1.00 20.57	C
ATOM	8900	C PHE C 292	17.417 110.088 114.282 1.00 20.65	C
ATOM		O PHE C 292	18.168 109.283 114.829 1.00 20.80	Ο
ATOM	8902	N LEU C 293	17.072 111.236 114.842 1.00 20.96	N
ATOM		CA LEU C 293	17.651 111.623 116.119 1.00 21.58	C
ATOM	8906	CB LEU C 293	17.866 113.149 116.172 1.00 22.24	C
ATOM	8909	CG LEU C 293	18.982 113.604 115.169 1.00 24.54	C
ATOM	8911	CD1 LEU C 293	18.918 115.091 114.766 1.00 26.29	С
ATOM	8915	CD2 LEU C 293	20.399 113.299 115.679 1.00 25.36	C
ATOM	8919	C LEU C 293	16.890 111.047 117.328 1.00 21.07	C
ATOM	8920		17.216 111.353 118.436 1.00 20.52	Ο
ATOM	8921	N GLN C 294	15.916 110.165 117.076 1.00 21.25	N
ATOM		CA GLN C 294	15.207 109.392 118.107 1.00 21.11	C
		CB GLN C 294	13.787 108.996 117.617 1.00 20.66	C
ATOM		CG GLN C 294	12.756 110.142 117.485 1.00 20.76	C
		CD GLN C 294	11.395 109.673 116.957 1.00 20.07	C
		OE1 GLN C 294	10.885 108.635 117.368 1.00 22.27	0
		NE2 GLN C 294	10.819 110.435 116.044 1.00 21.53	N
ATOM	8936	C GLN C 294	15.995 108.108 118.460 1.00 21.18	C

ATOM	8937 O GLN C 294	15.890 107.565 119.573 .1.00 21.79	Ο
ATOM	8938 N LEU C 295	16.762 107.618 117.489 1.00 20.56	N
ATOM	8940 CA LEU C 295	17.617 106.457 117.676 1.00 19.97	С
ATOM	8942 CB LEU C 295	18.184 106.000 116.331 1.00 19.84	С
ATOM	8945 CG LEU C 295	17.120 105.608 115.308 1.00 21.51	С
ATOM	8947 CD1 LEU C 295	17.677 105.567 113.880 1.00 21.63	C
ATOM	8951 CD2 LEU C 295	16.508 104.280 115.724 1.00 22.38	Č
ATOM	8955 C LEU C 295	18.776 106.814 118.579 1.00 18.98	C
ATOM	8956 O LEU C 295	19.174 107.979 118.657 1.00 18.87	Ō
ATOM	8957 N GLY C 296	19.334 105.794 119.222 1.00 18.24	N
ATOM	8959 CA GLY C 296	20.553 105.924 119.992 1.00 17.51	C
ATOM	8962 C GLY C 296	21.708 106.223 119.064 1.00 17.28	C
ATOM	8963 O GLY C 296	21.676 105.904 117.864 1.00 16.50	Ö
	8964 N ARG C 297	22.722 106.867 119.610 1.00 17.04	N
ATOM	8966 CA ARG C 297	23.866 107.274 118.814 1.00 17.85	C
ATOM	8968 CB ARG C 297	24.914 107.939 119.702 1.00 18.51	Č
ATOM	8971 CG ARG C 297	25.970 108.701 118.932 1.00 21.03	C
ATOM	8974 CD ARG C 297	26.565 109.885 119.697 1.00 24.13	Č
ATOM	8974 CD ARG C 297 8977 NE ARG C 297	27.446 110.642 118.814 1.00 26.89	N
ATOM	8977 NE ARG C 297	28.688 110.280 118.488 1.00 28.95	C
ATOM	8980 NH1 ARG C 297	29.245 109.170 118.989 1.00 28.90	N
ATOM	8983 NH2 ARG C 297	29.386 111.044 117.654 1.00 30.13	N
ATOM		24.500 106.110 118.072 1.00 17.21	C
ATOM	8986 C ARG C 297	24.996 106.292 116.970 1.00 17.21	0
ATOM	8987 O ARG C 297	24.485 104.927 118.684 1.00 17.07	N
ATOM	8988 N GLU C 298	25.127 103.732 118.118 1.00 17.04	C
ATOM	8990 CA GLU C 298		C
ATOM	8992 CB GLU C 298	25.210 102.597 119.172 1.00 17.47	
ATOM	8995 CG GLU C 298	26.611 102.225 119.675 1.00 20.19	C
ATOM	8998 CD GLU C 298	26.928 102.699 121.098 1.00 24.27	C
ATOM	8999 OE1 GLU C 298	27.441 101.898 121.941 1.00 26.54	0
ATOM	9000 OE2 GLU C 298	26.710 103.894 121.377 1.00 26.08	0
ATOM	9001 C GLU C 298	24.375 103.269 116.857 1.00 16.16	C
ATOM	9002 O GLU C 298	24.988 102.930 115.857 1.00 15.40	0
ATOM	9003 N ASP C 299	23.043 103.275 116.903 1.00 15.81	N
ATOM	9005 CA ASP C 299	22.237 102.947 115.717 1.00 15.58	C
ATOM	9007 CB ASP C 299	20.776 102.702 116.079 1.00 15.51	C
	9010 CG ASP C 299	20.580 101.419 116.853 1.00 17.40	C
	9011 OD1 ASP C 299	21.597 100.704 117.109 1.00 17.79	0
	9012 OD2 ASP C 299	19.440 101.049 117.244 1.00 18.34	0
ATOM	9013 C ASP C 299	22.323 104.014 114.631 1.00 14.43	C
ATOM	9014 O ASP C 299	22.216 103.687 113.475 1.00 14.52	0
ATOM		22.528 105.270 115.010 1.00 13.51	N
ATOM		22.701 106.360 114.061 1.00 13.20	С
ATOM	9019 CB GLN C 300	22.832 107.720 114.787 1.00 13.53	С
ATOM		21.478 108.370 115.142 1.00 14.58	C
	9025 CD GLN C 300	21.589 109.678 115.924 1.00 16.44	С
ATOM		22.618 110.348 115.897 1.00 18.72	О
ATOM	9027 NE2 GLN C 300	20.521 110.036 116.625 1.00 18.19	N

ATOM	9030	C GLN C 300	23.941 106.081 113.219 1.00 12.90	С
ATOM	9031		23.890 106.120 111.982 1.00 12.11	O
ATOM		N ILE C 301	25.042 105.771 113.907 1.00 12.62	N
ATOM		CA ILE C 301	26.318 105.476 113.264 1.00 12.44	С
ATOM		CB ILE C 301	27.455 105.338 114.313 1.00 12.75	С
ATOM		CG1 ILE C 301	27.860 106.724 114.830 1.00 13.07	С
ATOM		CD1 ILE C 301	28.710 106.675 116.118 1.00 13.04	C
ATOM		CG2 ILE C 301	28.698 104.619 113.728 1.00 12.96	С
ATOM		C ILE C 301	26.210 104.240 112.389 1.00 12.02	C
ATOM	9050		26.632 104.279 111.247 1.00 12.15	O
ATOM		N ALA C 302	25.607 103.172 112.897 1.00 11.82	N
ATOM		CA ALA C 302	25.437 101.932 112.124 1.00 12.16	С
ATOM		CB ALA C 302	24.883 100.831 113.008 1.00 12.16	С
ATOM		C ALA C 302	24.542 102.103 110.887 1.00 12.54	С
ATOM		O ALA C 302	24.791 101.527 109.835 1.00 12.70	0
ATOM		N LEU C 303	23.498 102.896 111.009 1.00 13.13	N
ATOM		CA LEU C 303	22.589 103.099 109.891 1.00 13.77	С
ATOM		CB LEU C 303	21.304 103.819 110.334 1.00 14.12	C
ATOM		CG LEU C 303	20.322 102.935 111.135 1.00 15.21	С
ATOM		CD1 LEU C 303		C
ATOM		CD2 LEU C 303		C
ATOM		C LEU C 303	23.306 103.860 108.794 1.00 13.54	С
ATOM		O LEU C 303	23.239 103.469 107.649 1.00 12.29	O
ATOM		N LEU C 304	24.036 104.903 109.171 1.00 14.20	N
ATOM		CA LEU C 304		С
ATOM		CB LEU C 304	25.385 106.950 108.907 1.00 15.36	C
ATOM		CG LEU C 304		С
ATOM		CD1 LEU C 304		C
ATOM		CD2 LEU C 304		C
ATOM		C LEU C 304	25.913 104.983 107.527 1.00 15.76	С
ATOM			26.124 105.161 106.347 1.00 16.32	O
ATOM		N LYS C 305		N
		CA LYS C 305		С
ATOM		CB LYS C 305	28.447 102.638 108.909 1.00 16.84	С
ATOM		CG LYS C 305	29.930 102.380 108.702 1.00 17.61	С
		CD LYS C 305	30.525 101.476 109.823 1.00 17.48	С
		CE LYS C 305	31.043 100.146 109.246 1.00 18.13	С
		NZ LYS C 305	31.784 99.317 110.254 1.00 17.66	N
		C LYS C 305	27.267 102.343 106.691 1.00 17.22	С
		O LYS C 305	27.893 102.188 105.641 1.00 17.91	O
		N ALA C 306	26.163 101.659 106.952 1.00 17.29	N
ATOM		CA ALAC 306	25.659 100.665 106.005 1.00 17.55	C
		CB ALA C 306		С
		C ALA C 306	24.949 101.325 104.820 1.00 17.94	С
		O ALA C 306	24.726 100.695 103.794 1.00 18.97	0
ATOM			24.617 102.595 104.962 1.00 17.58	N
		3 CA SER C 307	23.710 103.250 104.054 1.00 17.92	С
ATOM		5 CB SER C 307	22.611 103.921 104.866 1.00 17.61	C
				-

ATOM	9138	OG SER C 307	21.768 104.633 104.024 1.00 20.18	O
ATOM	9140	C SER C 307	24.360 104.304 103.183 1.00 17.67	C
ATOM	9141	O SER C 307	23.809 104.652 102.137 1.00 17.60	О
ATOM		N THR C 308	25.506 104.825 103.618 1.00 17.29	N
ATOM		CA THR C 308		С
		CB THR C 308		C
			27.109 107.106 104.891 1.00 17.54	O
		CG2 THR C 308		C
ATOM		C THR C 308	26.372 105.642 101.482 1.00 17.56	С
ATOM		O THR C 308		O
			26.923 104.467 101.198 1.00 17.29	N
		CA ILE C 309	27.253 104.119 99.821 1.00 17.69	С
		CB ILE C 309	28.162 102.861 99.742 1.00 17.33	С
			28.721 102.688 98.331 1.00 17.70	С
ATOM	0165	CD1 ILE C 309	29.720 103.754 97.938 1.00 18.00	Ċ
		CG2 ILE C 309		C
		C ILE C 309	25.988 103.953 98.987 1.00 17.79	С
			25.950 104.360 97.835 1.00 18.04	Ö
		N GLU C 310		N
			23.710 103.120 98.859 1.00 17.79	C
			22.748 102.262 99.693 1.00 18.15	č
ATOM	0100	CC CLU C 310	23.042 100.776 99.576 1.00 19.42	Č
				Č
		CD GLU C 310		O
			21.036 100.097 100.753 1.00 23.35	o
		OE2 GLU C 310		С
		C GLU C 310		0
ATOM			22.480 104.525 97.397 1.00 16.96	_
ATOM		N ILEC311	23.129 105.404 99.358 1.00 16.43	N
		CA ILE C 311		C
		CB ILE C 311		C
			21.415 106.873 101.335 1.00 16.03	C
			21.551 107.259 102.769 1.00 16.89	C
		CG2 ILE C 311	22.061 108.947 100.163 1.00 14.17	C
ATOM		C ILE C 311	23.399 107.492 98.040 1.00 15.16	C
ATOM	9208		22.859 108.298 97.303 1.00 14.74	0
ATOM		N MET C 312	24.699 107.229 97.985 1.00 15.30	N
		CA MET C 312	25.610 107.877 97.031 1.00 15.36	C
		CB MET C 312	27.070 107.524 97.347 1.00 15.73	C
		CG MET C 312	27.768 108.490 98.286 1.00 16.56	С
		SD MET C 312	29.474 107.991 98.640 1.00 20.13	S
		CE MET C 312	30.310 108.784 97.288 1.00 17.77	C
		C MET C 312	25.278 107.471 95.596 1.00 14.87	C
		O MET C 312	25.300 108.307 94.702 1.00 14.39	O
-		N LEU C 313	24.952 106.193 95.419 1.00 14.90	N
		CA LEU C 313	24.505 105.629 94.154 1.00 15.60	С
ATOM	9230	CB LEU C 313	24.507 104.098 94.240 1.00 15.52	С
ATOM	9233	CG LEU C 313	25.902 103.473 94.345 1.00 17.07	С
ATOM	9235	CD1 LEU C 313	25.806 101.985 94.642 1.00 17.63	C

ATOM	9239	CD2 LEU C 313	26.747 103.716 93.058 1.00 16.98	C
ATOM	9243	C LEU C 313	23.114 106.109 93.734 1.00 15.79	С
ATOM	9244	O LEU C 313	22.864 106.313 92.550 1.00 15.46	0
ATOM	9245	N LEU C 314	22.204 106.255 94.691 1.00 16.14	N
ATOM	9247	CA LEU C 314	20.868 106.790 94.405 1.00 16.84	С
ATOM	9249	CB LEU C 314	19.988 106.744 95.646 1.00 17.11	С
ATOM	9252	CG LEU C 314	18.631 106.002 95.673 1.00 18.67	С
ATOM	9254	CD1 LEU C 314	18.454 104.919 94.622 1.00 19.10	С
ATOM	9258	CD2 LEU C 314	18.413 105.431 97.060 1.00 18.21	С
ATOM	9262	C LEU C 314	21.008 108.233 93.930 1.00 17.27	С
ATOM	9263	O LEU C 314	20.398 108.652 92.947 1.00 16.54	O
ATOM	9264	N GLU C 315	21.849 108.984 94.625 1.00 18.07	N
ATOM	9266	CA GLU C 315	22.054 110.384 94.302 1.00 18.87	С
ATOM	9268	CB GLU C 315	22.813 111.098 95.425 1.00 19.21	С
ATOM	9271	CG GLU C 315	21.916 111.532 96.579 1.00 21.88	С
ATOM	9274	CD GLU C 315	20.858 112.565 96.165 1.00 24.16	С
ATOM	9275	OE1 GLU C 315	21.225 113.574 95.497 1.00 21.62	О
ATOM	9276	OE2 GLU C 315	19.663 112.350 96.523 1.00 26.27	Ο
ATOM	9277	C GLU C 315	22.791 110.539 92.983 1.00 18.54	C
ATOM	9278	O GLU C 315	22.670 111.569 92.332 1.00 18.60	О
ATOM	9279	N THR C 316	23.551 109.518 92.601 1.00 18.27	N
ATOM	9281	CA THR C 316	24.222 109.492 91.303 1.00 18.13	C
ATOM	9283	CB THR C 316	25.325 108.403 91.293 1.00 18.21	C
ATOM	9285	OG1 THR C 316	26.248 108.631 92.366 1.00 17.85	O
ATOM	9287	CG2 THR C 316	26.194 108.503 90.056 1.00 17.93	C
ATOM	9291	C THR C 316	23.207 109.252 90.182 1.00 17.91	С
ATOM	9292	O THR C 316	23.266 109.901 89.151 1.00 17.49	О
ATOM	9293	N ALA C 317	22.273 108.334 90.409 1.00 18.09	N
ATOM	9295	CA ALA C 317	21.209 108.043 89.455 1.00 18.68	С
ATOM	9297	CB ALA C 317	20.323 106.940 89.984 1.00 18.51	С
ATOM	9301	C ALA C 317	20.376 109.281 89.184 1.00 19.16	C
ATOM	9302	O ALA C 317	20.025 109.573 88.041 1.00 19.81	О
ATOM	9303	N ARG C 318	20.089 109.999 90.259 1.00 19.76	N
ATOM	9305	CA ARG C 318	19.295 111.223 90.255 1.00 20.42	С
ATOM	9307	CB ARG C 318	19.186 111.748 91.700 1.00 20.76	С
ATOM	9310	CG ARG C 318	18.008 112.671 91.970 1.00 22.67	С
•		CD ARG C 318		С
ATOM	9316	NE ARG C 318		N
ATOM	9318	CZ ARG C 318	18.118 115.416 93.905 1.00 31.39	C
ATOM	9319	NH1 ARG C 318	19.402 115.254 94.208 1.00 32.11	N
ATOM	9322	NH2 ARG C 318		N
_		C ARG C 318	19.867 112.314 89.344 1.00 20.16	C
_		O ARG C 318	19.115 113.096 88.762 1.00 19.94	Ο
		N ARG C 319	21.196 112.350 89.231 1.00 20.23	N
		CA ARG C 319	21.914 113.378 88.481 1.00 20.06	С
		CB ARG C 319	23.107 113.855 89.296 1.00 20.26	С
		CG ARG C 319	22.759 114.309 90.693 1.00 20.52	C
ATOM	9337	CD ARG C 319	23.907 114.217 91.677 1.00 21.72	С

ATOM	9340 NE ARG C 319	23.590 114.904 92.926 1.00 22.55	N
ATOM	9342 CZ ARG C 319	24.210 115.987 93.380 1.00 23.92	C
ATOM	9343 NH1 ARG C 319		N
ATOM	9346 NH2 ARG C 319		N
ATOM	9349 C ARG C 319	22.418 112.867 87.145 1.00 19.89	С
ATOM	9350 O ARG C 319	23.149 113.567 86.433 1.00 20.03	O
ATOM	9351 N TYR C 320	22.037 111.642 86.810 1.00 19.62	N
ATOM	9353 CA TYR C 320	22.320 111.076 85.504 1.00 19.68	С
ATOM	9355 CB TYR C 320	22.233 109.552 85.567 1.00 19.69	C
ATOM	9358 CG TYR C 320	22.370 108.864 84.234 1.00 19.58	С
ATOM	9359 CD1 TYR C 320		C
ATOM	9361 CE1 TYR C 320	23.752 107.980 82.469 1.00 20.36	С
ATOM	9363 CZ TYR C 320	22.622 107.569 81.780 1.00 20.53	С
ATOM	9364 OH TYR C 320	22.766 106.938 80.565 1.00 21.22	О
ATOM	9366 CE2 TYR C 320	21.364 107.799 82.310 1.00 20.30	C
ATOM	9368 CD2 TYR C 320		С
ATOM	9370 C TYR C 320	21.314 111.626 84.498 1.00 19.59	С
ATOM	9371 O TYR C 320	20.112 111.379 84.597 1.00 19.48	О
ATOM	9372 N ASN C 321	21.815 112.392 83.545 1.00 19.68	N
ATOM	9374 CA ASN C 321	20.994 112.914 82.467 1.00 20.13	С
ATOM	9376 CB ASN C 321	21.498 114.318 82.075 1.00 20.08	C
ATOM	9379 CG ASN C 321	20.898 114.833 80.780 1.00 19.57	С
ATOM	9380 OD1 ASN C 321		О
ATOM	9381 ND2 ASN C 321	21.729 114.961 79.773 1.00 19.05	N
ATOM	9384 C ASN C 321	21.097 111.899 81.331 1.00 20.57	C
ATOM	9385 O ASN C 321	22.182 111.673 80.800 1.00 20.58	О
ATOM	9386 N HIS C 322	19.991 111.246 80.988 1.00 21.24	N
ATOM	9388 CA HIS C 322	20.062 110.134 80.036 1.00 22.18	С
ATOM	9390 CB HIS C 322	18.906 109.134 80.230 1.00 22.76	С
ATOM	9393 CG HIS C 322	19.082 107.859 79.450 1.00 24.65	C
ATOM	9394 ND1 HIS C 322	20.283 107.180 79.393 1.00 26.22	N
ATOM	9396 CE1 HIS C 322	20.153 106.117 78.619 1.00 26.44	C
ATOM	9398 NE2 HIS C 322	18.914 106.083 78.165 1.00 26.75	N
ATOM	9400 CD2 HIS C 322	18.223 107.163 78.666 1.00 25.69	C
ATOM	9402 C HIS C 322	20.157 110.567 78.564 1.00 21.92	C
ATOM	9403 O HIS C 322	20.459 109.737 77.708 1.00 21.93	O
ATOM	9404 N GLU C 323	19.920 111.848 78.275 1.00 21.88	N
ATOM	9406 CA GLU C 323	20.111 112.377 76.920 1.00 21.96	С
ATOM	9408 CB GLU C 323	19.542 113.791 76.792 1.00 22.16	С
ATOM	9411 CG GLU C 323	18.038 113.911 76.989 1.00 22.94	C
ATOM	9414 CD GLU C 323	17.628 115.303 77.441 1.00 24.39	C
ATOM	9415 OE1 GLU C 323		0
ATOM	9416 OE2 GLU C 323	17.373 116.165 76.564 1.00 24.78	0
ATOM	9417 C GLU C 323	21.590 112.405 76.530 1.00 21.66	C
ATOM	9418 O GLU C 323	21.941 112.094 75.392 1.00 21.39	Ο
ATOM	9419 N THR C 324	22.450 112.771 77.483 1.00 21.55	N
ATOM	9421 CA THR C 324	23.888 112.926 77.222 1.00 21.44	C
ATOM	9423 CB THR C 324	24.458 114.149 77.996 1.00 21.46	C

ATOM	9425	OG1 THR C 324	24.155 114.039 79.395 1.00 21.39	О
ATOM	9427	CG2 THR C 324	23.788 115.458 77.562 1.00 21.27	С
ATOM	9431	C THR C 324	24.681 111.676 77.606 1.00 21.34	C
ATOM	9432	O THR C 324	25.782 111.411 77.016 1.00 21.11	O
ATOM	9433	N GLU C 325	24.103 110.903 78.554 1.00 21.19	N
ATOM	9435	CA GLU C 325	24.776 109.764 79.197 1.00 21.16	C
ATOM	9437	CB GLU C 325	25.119 108.669 78.158 1.00 21.14	C
ATOM	9440	CG GLU C 325	24.070 108.514 77.053 1.00 20.93	C
ATOM	9443	CD GLU C 325	24.344 107.353 76.119 1.00 20.84	C
ATOM	9444	OE1 GLU C 325	24.703 107.598 74.945 1.00 21.88	Ο
ATOM	9445	OE2 GLU C 325	24.187 106.197 76.549 1.00 21.05	Ο
ATOM	9446	C GLU C 325	26.036 110.269 79.970 1.00 21.06	С
		O GLU C 325	27.224 109.694 79.857 1.00 21.38	Ο
ATOM		N CYS C 326	25.708 111.351 80.773 1.00 20.97	N
ATOM		CA CYS C 326	26.638 112.032 81.698 1.00 20.62	С
	9452	CB CYS C 326	27.039 113.380 81.119 1.00 20.62	С
		SG CYS C 326	28.207 113.283 79.778 1.00 21.03	S
		C CYS C 326	26.026 112.336 83.057 1.00 20.08	C
ATOM			24.871 112.744 83.144 1.00 19.85	О
		N ILE C 327	26.835 112.188 84.104 1.00 19.97	N
ATOM		CA ILE C 327	26.443 112.495 85.478 1.00 19.57	C
ATOM		CB ILE C 327	27.039 111.441 86.438 1.00 19.77	C
ATOM	9464	CG1 ILE C 327	26.508 110.036 86.107 1.00 19.43	С
		CD1 ILE C 327		С
ATOM		CG2 ILE C 327		С
ATOM	9475	C ILE C 327	26.990 113.869 85.852 1.00 19.48	С
ATOM	9476	O ILE C 327	28.184 114.129 85.672 1.00 19.10	O
ATOM	9477	N THR C 328	26.135 114.739 86.383 1.00 19.40	N
ATOM	9479	CA THR C 328	26.593 116.023 86.908 1.00 19.52	С
ATOM	9481	CB THR C 328	25.653 117.175 86.477 1.00 19.52	С
ATOM	9483	OG1 THR C 328	25.854 117.485 85.092 1.00 19.32	Ο
ATOM	9485	CG2 THR C 328	26.014 118.488 87.177 1.00 19.86	С
ATOM	9489	C THR C 328	26.711 115.954 88.436 1.00 19.67	C
ATOM	9490	O THR C 328	25.769 115.566 89.123 1.00 19.59	О
ATOM	9491	N PHE C 329	27.891 116.292 88.950 1.00 19.88	N
ATOM	9493	CA PHE C 329	28.098 116.475 90.379 1.00 19.94	С
ATOM	9495	CB PHE C 329	29.397 115.806 90.819 1.00 19.76	C
ATOM	9498	CG PHE C 329	29.383 114.313 90.717 1.00 18.14	C
ATOM	9499	CD1 PHE C 329	30.363 113.649 89.997 1.00 16.96	C
ATOM	9501	CE1 PHE C 329	30.365 112.273 89.906 1.00 16.32	С
ATOM	9503	CZ PHE C 329	29.394 111.547 90.530 1.00 16.17	С
ATOM	9505	CE2 PHE C 329	28.409 112.194 91.261 1.00 16.95	C
ATOM	9507	CD2 PHE C 329	28.410 113.574 91.351 1.00 16.75	C
ATOM	9509	C PHE C 329	28.152 117.961 90.744 1.00 20.54	С
ATOM	9510	O PHE C 329	28.429 118.823 89.898 1.00 20.45	O
ATOM	9511	N LEU C 330	27.919 118.237 92.025 1.00 21.19	N
ATOM	9513	CA LEU C 330	27.909 119.601 92.551 1.00 21.69	C
ATOM	9515	CB LEU C 330	29.313 120.228 92.474 1.00 21.81	С

ATOM 9518 CG LEU C 330 30.423 119.461 93.203 1.00 22.11 ·C 31.743 120.211 93.078 1.00 22.18 ATOM 9520 CD1 LEU C 330 C 30.072 119.207 94.672 1.00 22.18 C ATOM 9524 CD2 LEU C 330 ATOM 9528 C LEU C 330 26.844 120.444 91.840 1.00 21.87 C ATOM 9529 O LEU C 330 25.654 120.194 92.023 1.00 22.10 0 ATOM 9530 N LYS C 331 27.261 121.424 91.044 1.00 22.12 N 26.334 122.295 90.322 1.00 22.48 \mathbf{C} ATOM 9532 CA LYS C 331 ATOM 9534 CB LYS C 331 26.458 123.749 90.834 1.00 22.55 C 26.826 124.834 89.803 1.00 22.78 C ATOM 9537 CG LYS C 331 C 26.989 126.218 90.460 1.00 23.07 ATOM 9540 CD LYS C 331 28.382 126.811 90.254 1.00 23.08 C ATOM 9543 CE LYS C 331 N 28.572 127.396 88.894 1.00 23.45 ATOM 9546 NZ LYS C 331 26.541 122.200 88.808 1.00 22.62 C ATOM 9550 C LYS C 331 O ATOM 9551 O LYS C 331 25,567 122.128 88.063 1.00 22.83 N ATOM 9552 N ASP C 332 27.799 122.180 88.366 1.00 22.77 28.136 122.276 86.943 1.00 22.91 C ATOM 9554 CA ASP C 332 C ATOM 9556 CB ASP C 332 28.802 123.631 86.668 1.00 22.95 27.814 124.690 86.214 1.00 23.26 C ATOM 9559 CG ASP C 332 26.648 124.671 86.676 1.00 25.08 0 ATOM 9560 OD1 ASP C 332 28.117 125.586 85.405 1.00 21.44 ATOM 9561 OD2 ASP C 332 0 29.052 121.178 86.409 1.00 22.95 C ATOM 9562 C ASP C 332 29.148 121.017 85.196 1.00 23.16 0 ATOM 9563 O ASP C 332 ATOM 9564 N PHE C 333 29.738 120.441 87.280 1.00 23.00 N 30.737 119.471 86.822 1.00 22.97 C ATOM 9566 CA PHE C 333 ATOM 9568 CB PHE C 333 31.664 119.047 87.969 1.00 23.05 C C ATOM 9571 CG PHE C 333 32.486 120.174 88.566 1.00 23.21 32.605 121.412 87.940 1.00 23.89 C ATOM 9572 CD1 PHE C 333 33.371 122.429 88.504 1.00 23.79 C ATOM 9574 CE1 PHE C 333 ATOM 9576 CZ PHE C 333 34.024 122.218 89.701 1.00 23.41 C 33.916 120.996 90.334 1.00 23.59 C ATOM 9578 CE2 PHE C 333 C ATOM 9580 CD2 PHE C 333 33.151 119.981 89.768 1.00 23.64 ATOM 9582 C PHE C 333 30.054 118.243 86.224 1.00 22.95 C ATOM 9583 O PHE C 333 29.189 117.651 86.859 1.00 23.10 0 ATOM 9584 N THR C 334 30.448 117.876 85.004 1.00 22.92 N ATOM 9586 CA THR C 334 29.836 116.767 84.263 1.00 22.91 C ATOM 9588 CB THR C 334 29.052 117.321 83.039 1.00 22.95 \mathbf{C} 27.653 117.052 83.200 1.00 23.46 ATOM 9590 OG1 THR C 334 0 ATOM 9592 CG2 THR C 334 29.402 116.617 81.733 1.00 23.14 \mathbf{C} ATOM 9596 C THR C 334 30.887 115.738 83.846 1.00 22.78 C ATOM 9597 O THR C 334 32.030 116.093 83.563 1.00 22.83 0 30.483 114.467 83.798 1.00 22.76 ATOM 9598 N TYR C 335 N ATOM 9600 CA TYR C 335 31.402 113.357 83.552 1.00 22.83 C ATOM 9602 CB TYR C 335 31.949 112.809 84.865 1.00 22.65 C ATOM 9605 CG TYR C 335 32.588 113.866 85.718 1.00 22.97 C C ATOM 9606 CD1 TYR C 335 31.911 114.398 86.810 1.00 23.06 32.478 115.376 87.594 1.00 23.22 ATOM 9608 CE1 TYR C 335 C ATOM 9610 CZ TYR C 335 33.735 115.843 87.302 1.00 23.50 C 0 ATOM 9611 OH TYR C 335 34.268 116.818 88.104 1.00 24.32

ATOM	9613 CE2 TYR C 335	34.438 115.344 86.213 1.00 23.60	С
	9615 CD2 TYR C 33		C
ATOM	9617 C TYR C 335		c
ATOM	9618 O TYR C 335		Ö
ATOM	9619 N SER C 336		N
	9621 CA SER C 336	1100 2012	C
	9623 CB SER C 336	1100 20120	C
	9626 OG SER C 336		O
ATOM		1100 25,21	c
ATOM		1100 25.15	0
	9630 N LYS C 337		N
	9632 CA LYS C 337	1100 2517	C
		30.441 106.083 79.979 1.00 23.79	C
ATOM	9637 CG LYS C 337	29.359 105.144 80.487 1.00 24.13	C
ATOM	9640 CD LYS C 337	29.345 103.817 79.703 1.00 24.13	C
ATOM		1.00 2 1.05	C
ATOM			_
ATOM			N
	9651 O LYS C 337		C O
	9652 N ASP C 338		_
	9654 CA ASP C 338		N
	9656 CB ASP C 338	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C
	9659 CG ASP C 338		C
ATOM		35.353 105.798 76.567 1.00 23.44	C
ATOM	9661 OD2 ASP C 338	33.425 105.740 77.531 1.00 23.44	0
ATOM		35.425 103.740 77.331 1.00 23.90 35.490 108.156 80.658 1.00 23.45	0
ATOM			C
ATOM	9664 N ASP C 339	1.00 23.32	0
ATOM		35.602 110.193 82.014 1.00 23.46	N
	9668 CB ASP C 339		C
ATOM	9671 CG ASP C 339		C
	9672 OD1 ASP C 339	· · · · · · · · · · · · · · · · · · ·	C
		36.252 112.652 80.734 1.00 22.17 34.322 113.536 81.054 1.00 22.90	0
ATOM	9674 C ASP C 339		0
	9675 O ASP C 339	35.854 109.473 83.350 1.00 23.65	C
	9676 N PHE C 340	36.789 109.823 84.083 1.00 23.64 35.010 108.483 83.663 1.00 23.87	0
	9678 CA PHE C 340	35.214 107.611 84.826 1.00 24.06	N
	9680 CB PHE C 340	33.959 106.770 85.115 1.00 24.12	C
	9683 CG PHE C 340	32.889 107.498 85.895 1.00 24.96	C
	9684 CD1 PHE C 340	1.00 24.50	C
	9686 CE1 PHE C 340	32.208 108.569 85.336 1.00 25.77	C
	9688 CZ PHE C 340	31.219 109.238 86.043 1.00 26.02	С
	9690 CE2 PHE C 340	30.895 108.832 87.325 1.00 26.79	C
	9692 CD2 PHE C 340	31.558 107.754 87.898 1.00 26.79	C
	9694 C PHE C 340	32.549 107.095 87.184 1.00 25.85	С
		36.405 106.676 84.595 1.00 23.95	C
		37.273 106.540 85.461 1.00 23.70	0
	9698 CA HIS C 341	36.443 106.031 83.428 1.00 24.03	N
	> > > O	37.529 105.098 83.113 1.00 24.10	С

		132	
ATOM	9700 CB HIS C 341	37.295 104.356 81.795 1.00 23.79	C
ATOM	9703 CG HIS C 341	38.254 103.225 81.578 1.00 23.96	C
ATOM	9704 ND1 HIS C 341	38.295 102.118 82.399 1.00 23.93	N
ATOM	9706 CE1 HIS C 341	39.245 101.298 81.982 1.00 23.56	С
ATOM	9708 NE2 HIS C 341	39.828 101.837 80.927 1.00 23.39	N
ATOM	9710 CD2 HIS C 341	39.233 103.046 80.657 1.00 23.74	С
ATOM		38.890 105.781 83.078 1.00 24.20	C
ATOM	9713 O HIS C 341	39.891 105.167 83.442 1.00 24.22	0
ATOM	9714 N ARG C 342	38.917 107.050 82.665 1.00 24.50	N
ATOM	9716 CA ARG C 342	40.166 107.816 82.544 1.00 24.78	C
ATOM	9718 CB ARG C 342	39.954 109.101 81.726 1.00 24.75	C
ATOM	9721 CG ARG C 342	39.982 108.917 80.211 1.00 24.30	C
ATOM	9724 CD ARG C 342	39.065 109.885 79.471 1.00 23.88	C
ATOM	9727 NE ARG C 342	39.099 109.706 78.021 1.00 23.45	N
ATOM	9729 CZ ARG C 342	38.260 110.288 77.164 1.00 23.05	C
ATOM		37.302 111.102 77.594 1.00 22.76	N
ATOM		38.383 110.057 75.862 1.00 23.21	N
ATOM	9736 C ARG C 342	40.753 108.175 83.910 1.00 25.03	C
ATOM	9737 O ARG C 342	41.938 108.496 84.014 1.00 25.19	0
ATOM	9738 N ALA C 343	39.917 108.130 84.944 1.00 25.28	N
ATOM		40.357 108.321 86.320 1.00 25.56	C
	9742 CB ALA C 343	39.257 109.015 87.120 1.00 25.51	C
ATOM		40.747 106.999 86.993 1.00 25.82	C
ATOM		40.608 106.857 88.212 1.00 26.03	0
	9748 N GLY C 344	41.221 106.037 86.201 1.00 26.08	N
ATOM		41.775 104.797 86.716 1.00 26.38	C
ATOM	9753 C GLY C 344	40.829 103.917 87.507 1.00 26.78	C
ATOM	9754 O GLY C 344	41.222 103.369 88.538 1.00 26.80	O N
ATOM		39.592 103.773 87.031 1.00 27.25	
ATOM		38.594 102.943 87.714 1.00 27.42	C C
ATOM		37.308 103.747 87.978 1.00 27.41	C
ATOM		37.328 104.711 89.177 1.00 26.98	
	9764 CD1 LEU C 345	36.274 105.799 89.030 1.00 26.10	C C
ATOM		37.140 103.971 90.492 1.00 26.81	C
	9772 C LEU C 345	38.284 101.657 86.926 1.00 27.76 38.452 101.599 85.698 1.00 27.59	0
	9773 O LEU C 345	37.837 100.634 87.658 1.00 27.39	N
	9774 N GLN C 346	37.475 99.338 87.079 1.00 28.44	C
	9776 CA GLN C 346	37.215 98.310 88.194 1.00 28.43	C
	9778 CB GLN C 346	38.477 97.832 88.925 1.00 28.46	C
	9781 CG GLN C 346	38.727 96.329 88.789 1.00 28.15	C
	9784 CD GLN C 346 9785 OE1 GLN C 346	39.805 95.913 88.365 1.00 27.00	o
			N
	9786 NE2 GLN C 346	36.231 99.444 86.191 1.00 28.67	C
	9789 C GLN C 346	35.299 100.192 86.515 1.00 28.63	O
	9790 O GLN C 346 9791 N VAL C 347	36.219 98.682 85.092 1.00 28.72	N
ATOM	9791 N VALC 347 9793 CA VALC 347	35.083 98.646 84.158 1.00 28.88	C
		35.492 98.051 82.777 1.00 29.00	C
ATOM	9795 CB VAL C 347	33,492 38,031 02.777 1.00 29.00	C

ATOM 9797 CG1 VAL C 34	47 34.313 98.048 81.802 1.00 29.19	С
ATOM 9801 CG2 VAL C 34		C
ATOM 9805 C VAL C 347		C
ATOM 9806 O VAL C 347		0
ATOM 9807 N GLUC 348		N
ATOM 9809 CA GLU C 34		C
ATOM 9811 CB GLU C 34		C
ATOM 9814 CG GLU C 34		С
ATOM 9817 CD GLU C 34		С
ATOM 9818 OE1 GLU C 34		О
ATOM 9819 OE2 GLU C 34		Ο
ATOM 9820 C GLU C 348		C
ATOM 9821 O GLU C 348		О
ATOM 9822 N PHE C 349		N
ATOM 9824 CA PHE C 34		С
ATOM 9826 CB PHE C 34		С
ATOM 9829 CG PHE C 34	9 33.367 100.516 90.725 1.00 28.59	C
ATOM 9830 CD1 PHE C 34		C
ATOM 9832 CE1 PHE C 34	31.840 101.349 92.399 1.00 29.59	C
ATOM 9834 CZ PHE C 34		C
ATOM 9836 CE2 PHE C 34	49 33.989 102.363 92.172 1.00 28.66	C
ATOM 9838 CD2 PHE C 34	49 34.288 101.475 91.146 1.00 29.12	C
ATOM 9840 C PHE C 349	31.744 100.113 88.096 1.00 27.25	C
ATOM 9841 O PHE C 349	30.771 100.601 88.659 1.00 27.59	О
ATOM 9842 N ILE C 350	32.122 100.489 86.867 1.00 26.78	N
ATOM 9844 CA ILE C 350	31.445 101.562 86.110 1.00 26.20	· C
ATOM 9846 CB ILE C 350	32.420 102.239 85.091 1.00 26.26	C
ATOM 9848 CG1 ILE C 35	0 33.592 102.924 85.802 1.00 26.42	C
ATOM 9851 CD1 ILE C 35	0 34.836 103.084 84.904 1.00 26.70	C
ATOM 9855 CG2 ILE C 35	0 31.689 103.269 84.207 1.00 26.08	C
ATOM 9859 C ILE C 350	30.196 101.088 85.354 1.00 25.72	С
ATOM 9860 O ILE C 350	29.230 101.832 85.247 1.00 25.62	О
ATOM 9861 N ASN C 35	30.219 99.875 84.809 1.00 25.21	N
ATOM 9863 CA ASN C 35	29.082 99.374 84.035 1.00 24.96	C
ATOM 9865 CB ASN C 35	51 29.422 98.057 83.322 1.00 24.86	C
ATOM 9868 CG ASN C 35	30.401 98.245 82.153 1.00 25.77	C
ATOM 9869 OD1 ASN C 3	51 30.457 99.308 81.523 1.00 26.02	O
ATOM 9870 ND2 ASN C 3	51 31.172 97.198 81.858 1.00 25.78	N
ATOM 9873 C ASN C 35	27.792 99.233 84.867 1.00 24.70	C
ATOM 9874 O ASN C 35	1 26.760 99.768 84.466 1.00 24.83	Ο
ATOM 9875 N PRO C 352	2 27.828 98.551 86.016 1.00 24.16	N
ATOM 9876 CA PRO C 35	26.598 98.339 86.802 1.00 24.18	C
ATOM 9878 CB PRO C 35	27.060 97.425 87.953 1.00 24.24	С
ATOM 9881 CG PRO C 35	52 28.381 96.867 87.501 1.00 24.24	C
ATOM 9884 CD PRO C 35		C
ATOM 9887 C PRO C 352		С
ATOM 9888 O PRO C 352		0
ATOM 9889 N ILE C 353	26.781 100.653 87.615 1.00 23.70	N

ATOM 9891 CA ILE C 353 26.306 101.938 88.134 1.00 23.36 C ATOM 9893 CB ILE C 353 27.495 102.793 88.656 1.00 23.41 C ATOM 9895 CG1 ILE C 353 28.178 102.106 89.842 1.00 23.42 C ATOM 9898 CD1 ILE C 353 29.420 102.820 90.337 1.00 23.49 C ATOM 9902 CG2 ILE C 353 27.015 104.190 89.075 1.00 23.20 C ATOM 9906 C ILE C 353 25.537 102.735 87.079 1.00 23.29 C ATOM 9907 O ILE C 353 24.577 103.439 87.401 1.00 22.97 0 ATOM 9908 N PHE C 354 25.985 102.660 85.827 1.00 23.02 N ATOM 9910 CA PHE C 354 25.286 103.334 84.732 1.00 22.96 C ATOM 9912 CB PHE C 354 26.198 103.508 83.517 1.00 23.12 C ATOM 9915 CG PHE C 354 26.964 104.811 83.514 1.00 23.93 C ATOM 9916 CD1 PHE C 354 28.159 104.934 84.208 1.00 24.40 C ATOM 9918 CE1 PHE C 354 28.874 106.126 84.193 1.00 24.30 \mathbf{C} ATOM 9920 CZ PHE C 354 28.397 107.209 83.491 1.00 24.43 C ATOM 9922 CE2 PHE C 354 27.207 107.105 82.786 1.00 24.83 C ATOM 9924 CD2 PHE C 354 26.496 105.909 82.801 1.00 24.84 \mathbf{C} ATOM 9926 C PHE C 354 24.012 102.575 84.350 1.00 22.50 C 23.036 103.176 83.899 1.00 22.50 ATOM 9927 O PHE C 354 0 ATOM 9928 N GLU C 355 24.031 101.259 84.533 1.00 22.02 N ATOM 9930 CA GLU C 355 22.836 100.434 84.373 1.00 21.74 C ATOM 9932 CB GLU C 355 23.196 98.932 84.395 1.00 21.83 C ATOM 9935 CG GLU C 355 22.744 98.125 83.179 1.00 22.57 C ATOM 9938 CD GLU C 355 23.799 97.115 82.705 1.00 23.44 C ATOM 9939 OE1 GLU C 355 23.969 96.928 81.475 1.00 22.50 0 ATOM 9940 OE2 GLU C 355 24.463 96.502 83.572 1.00 24.23 0 ATOM 9941 C GLU C 355 21.859 100.768 85.511 1.00 21.11 C ATOM 9942 O GLU C 355 20.646 100.851 85.307 1.00 20.86 0 ATOM 9943 N PHE C 356 22.384 100.975 86.711 1.00 20.31 N ATOM 9945 CA PHE C 356 21.511 101.303 87.837 1.00 20.11 C ATOM 9947 CB PHE C 356 22.258 101.311 89.169 1.00 19.71 C ATOM 9950 CG PHE C 356 21.360 101.575 90.347 1.00 20.79 C ATOM 9951 CD1 PHE C 356 20.447 100.614 90.760 1.00 21.75 C ATOM 9953 CE1 PHE C 356 19.605 100.844 91.826 1.00 21.97 C ATOM 9955 CZ PHE C 356 19.654 102.071 92.490 1.00 23.12 C ATOM 9957 CE2 PHE C 356 20.554 103.049 92.067 1.00 21.68 C ATOM 9959 CD2 PHE C 356 21.390 102.797 91.004 1.00 20.58 C ATOM 9961 C PHE C 356 20.895 102.668 87.573 1.00 19.69 C ATOM 9962 O PHE C 356 19.650 102.846 87.643 1.00 19.08 0 ATOM 9963 N SER C 357 21.787 103.607 87.227 1.00 19.64 N ATOM 9965 CA SER C 357 21.411 104.972 86.894 1.00 19.63 C ATOM 9967 CB SER C 357 22.623 105.755 86.374 1.00 19.47 C ATOM 9970 OG SER C 357 23.513 106.106 87.417 1.00 18.07 0 ATOM 9972 C SER C 357 20.295 105.020 85.862 1.00 19.99 C ATOM 9973 O SER C 357 19.307 105.729 86.049 1.00 20.17 0 ATOM 9974 N ARG C 358 20.430 104.253 84.793 1.00 20.29 N ATOM 9976 CA ARG C 358 19.464 104.344 83.714 1.00 21.21 \mathbf{C} ATOM 9978 CB ARG C 358 20.103 103.971 82.360 1.00 21.36 C ATOM 9981 CG ARG C 358 19.989 102.525 81.901 1.00 23.32

ATOM	9984 CD ARG C 358	20.690 102.292 80.555 1.00 24.66	C
ATOM	9987 NE ARG C 358	22.088 102.751 80.620 1.00 26.32	N
ATOM	9989 CZ ARG C 358	23.159 101.977 80.935 1.00 28.56	С
ATOM	9990 NH1 ARG C 358	23.022 100.674 81.205 1.00 28.88	N
ATOM	9993 NH2 ARG C 358	24.385 102.515 80.950 1.00 29.96	N
ATOM	9996 C ARG C 358	18.184 103.566 84.037 1.00 21.24	C
ATOM	9997 O ARG C 358	17.101 103.910 83.556 1.00 21.87	O
ATOM	9998 N ALA C 359	18.303 102.525 84.852 1.00 21.25	N
ATOM	10000 CA ALA C 359	17.129 101.770 85.276 1.00 21.64	C
ATOM	10002 CB ALA C 359	17.522 100.456 85.927 1.00 21.55	C
ATOM	10006 C ALA C 359	16.279 102.622 86.216 1.00 22.35	C
ATOM	10007 O ALA C 359	15.056 102.459 86.276 1.00 22.40	O
ATOM	10008 N MET C 360	16.922 103.553 86.923 1.00 22.66	N
ATOM	10010 CA MET C 360	16.197 104.555 87.684 1.00 23.32	C
ATOM	10012 CB MET C 360	17.137 105.295 88.638 1.00 23.88	C
ATOM	10015 CG MET C 360	17.731 104.413 89.741 1.00 24.60	C
ATOM	10018 SD MET C 360	16.721 104.377 91.213 1.00 30.15	S
ATOM	10019 CE MET C 360	15.846 102.995 90.912 1.00 29.26	C
ATOM	10023 C MET C 360	15.432 105.560 86.807 1.00 23.56	C
ATOM	10024 O MET C 360	14.338 105.997 87.188 1.00 23.48	Ο
ATOM	10025 N ARG C 361	15.969 105.915 85.638 1.00 23.81	N
ATOM	10027 CA ARG C 361	15.280 106.879 84.783 1.00 24.20	C
ATOM	10029 CB ARG C 361	16.148 107.326 83.573 1.00 24.79	С
ATOM	10032 CG ARG C 361	16.187 108.860 83.365 1.00 26.92	C
ATOM	10035 CD ARG C 361	16.661 109.654 84.627 1.00 30.24	C
ATOM	10038 NE ARG C 361	16.053 110.989 84.746 1.00 32.03	N
ATOM	10040 CZ ARG C 361	15.969 111.706 85.873 1.00 33.99	C
ATOM	10041 NH1 ARG C 361	16.430 111.247 87.049 1.00 34.23	N
ATOM	10044 NH2 ARG C 361	15.403 112.908 85.822 1.00 35.68	N
ATOM	10047 C ARG C 361	13.925 106.338 84.330 1.00 23.86	C
ATOM	10048 O ARG C 361	12.911 107.069 84.382 1.00 24.38	O
ATOM	10049 N ARG C 362	13.915 105.071 83.894 1.00 23.50	N
ATOM	10051 CA ARG C 362	12.695 104.382 83.440 1.00 23.22	C
ATOM	10053 CB ARG C 362	12.951 102.874 83.279 1.00 23.37	C
ATOM	10056 CG ARG C 362	13.918 102.464 82.151 1.00 23.80	С
ATOM	10059 CD ARG C 362	14.507 101.050 82.314 1.00 24.20	C
ATOM	10062 NE ARG C 362	15.603 100.809 81.370 1.00 25.42	N
ATOM	10064 CZ ARG C 362	16.711 100.111 81.628 1.00 25.11	С
ATOM	10065 NH1 ARG C 362	16.901 99.536 82.814 1.00 24.28	N
ATOM	10068 NH2 ARG C 362	17.636 99.970 80.671 1.00 25.33	N
ATOM	10071 C ARG C 362	11.561 104.570 84.441 1.00 22.97	C
ATOM	10072 O ARG C 362	10.385 104.646 84.081 1.00 22.22	O
ATOM	10073 N LEU C 363	11.948 104.613 85.715 1.00 23.48	N
ATOM	10075 CA LEU C 363	11.016 104.763 86.832 1.00 23.40	С
ATOM	10077 CB LEU C 363	11.645 104.253 88.116 1.00 23.65	C
ATOM	10080 CG LEU C 363	11.589 102.738 88.298 1.00 24.41	С
ATOM	10082 CD1 LEU C 363	12.171 102.414 89.650 1.00 24.85	С
ATOM	10086 CD2 LEU C 363	10.165 102.205 88.181 1.00 24.58	C

ATOM 10090 C LEU C 363	10.530 106.192 87.027 1.00 23.05	С
	9.377 106.412 87.419 1.00 23.00	Ö
ATOM 10092 N GLY C 364		N
ATOM 10094 CA GLY C 364		C
ATOM 10097 C GLY C 364		c
ATOM 10098 O GLY C 364		ŏ
	11.455 108.959 88.793 1.00 21.51	N
	11.234 109.519 90.114 1.00 21.03	C
ATOM 10103 CB LEU C 365		c
	12.368 107.358 91.122 1.00 21.08	C
	13.044 107.004 92.460 1.00 22.02	C
ATOM 10112 CD2 LEU C 365		C
ATOM 10116 C LEU C 365		C
	12.407 111.484 89.409 1.00 21.32	0
ATOM 10118 N ASP C 366		N
	10.991 113.161 91.132 1.00 19.45	C
	9.697 113.977 91.126 1.00 19.28	C
	8.683 113.455 92.098 1.00 19.71	
	9.092 113.087 93.215 1.00 21.40	C
ATOM 10120 ODI ASI C 300 ATOM 10127 OD2 ASP C 366		0
ATOM 10127 OD2 ASP C 366		0
ATOM 10128 C ASP C 300 ATOM 10129 O ASP C 366		C
ATOM 10129 O ASP C 367		O
ATOM 10130 N ASP C 367 ATOM 10132 CA ASP C 367		N
	12.764 114.758 94.119 1.00 18.83 12.997 116.278 94.260 1.00 19.03	C
ATOM 10134 CB ASP C 367 ATOM 10137 CG ASP C 367		C
		C
	14.541 115.992 92.456 1.00 22.82	0
ATOM 10139 OD2 ASP C 367 ATOM 10140 C ASP C 367	14.127 118.034 92.998 1.00 22.97	0
		C
	12.831 113.657 96.236 1.00 17.54	0
ATOM 10144 CA ALA C 269	10.825 114.317 95.499 1.00 16.37	N
ATOM 10144 CA ALA C 308	10.087 113.797 96.622 1.00 15.67	C
ATOM 10146 CB ALA C 368 ATOM 10150 C ALA C 368	8.605 114.125 96.454 1.00 15.18	C
ATOM 10150 C ALA C 368 ATOM 10151 O ALA C 368	10.308 112.280 96.767 1.00 15.68	C
ATOM 10151 O ALA C 368 ATOM 10152 N GLU C 369	10.513 111.774 97.878 1.00 14.84	O
	10.266 111.583 95.628 1.00 15.85	N
ATOM 10154 CA GLU C 369	10.353 110.128 95.561 1.00 16.13	С
ATOM 10156 CB GLU C 369	9.860 109.624 94.217 1.00 16.06	С
ATOM 10159 CG GLU C 369	8.374 109.828 94.055 1.00 17.12	C
ATOM 10162 CD GLU C 369	7.877 109.577 92.647 1.00 18.03	С
ATOM 10163 OE1 GLU C 369	6.866 108.884 92.536 1.00 20.82	О
ATOM 10164 OE2 GLU C 369	8.469 110.052 91.656 1.00 18.31	О
ATOM 10165 C GLU C 369	11.744 109.594 95.836 1.00 16.23	С
ATOM 10166 O GLU C 369	11.886 108.550 96.445 1.00 16.69	O
ATOM 10167 N TYR C 370	12.762 110.314 95.404 1.00 16.55	N
ATOM 10169 CA TYR C 370	14.145 109.957 95.744 1.00 16.91	С
ATOM 10171 CB TYR C 370	15.126 110.805 94.935 1.00 16.93	C
ATOM 10174 CG TYR C 370	15.577 110.198 93.646 1.00 17.84	С

ATOM 10175 CD1 TYR C 370	15.126 110.684 92.413 1.00 19.06	С
ATOM 10177 CE1 TYR C 370	15.579 110.119 91.207 1.00 19.31	С
ATOM 10179 CZ TYR C 370	16.484 109.067 91.247 1.00 19.58	С
ATOM 10180 OH TYR C 370	16.966 108.484 90.093 1.00 22.52	0
ATOM 10182 CE2 TYR C 370	16.933 108.582 92.454 1.00 20.02	С
ATOM 10184 CD2 TYR C 370		C
ATOM 10186 C TYR C 370	14.405 110.209 97.224 1.00 16.75	C
ATOM 10187 O TYR C 370	15.209 109.536 97.854 1.00 16.88	Ö
ATOM 10188 N ALA C 371		N
ATOM 10188 N ALA C 371	13.937 111.635 99.145 1.00 17.27	C
ATOM 10190 CA ALA C 371 ATOM 10192 CB ALA C 371	13.291 112.993 99.374 1.00 17.08	Č
ATOM 10192 CB ALA C 371 ATOM 10196 C ALA C 371	13.335 110.567 100.051 1.00 16.84	Č
ATOM 10190 C ALA C 371 ATOM 10197 O ALA C 371		Ö
ATOM 10197 O ALA C 371 ATOM 10198 N LEU C 372		N
	11.404 109.117 100.441 1.00 17.09	C
ATOM 10200 CA LEU C 372	9,970 108.972 99.929 1.00 17.59	c
ATOM 10202 CB LEU C 372	9.044 110.149 100.313 1.00 17.05	C
ATOM 10205 CG LEU C 372		C
ATOM 10207 CD1 LEU C 372		C
ATOM 10211 CD2 LEU C 372	12.074 107.789 100.327 1.00 17.40	C
ATOM 10215 C LEU C 372		0
ATOM 10216 O LEU C 372		N
ATOM 10217 N LEU C 373		
ATOM 10219 CA LEU C 373	13.380 106.194 99.021 1.00 17.11	C
ATOM 10221 CB LEU C 373	13.757 105.902 97.556 1.00 17.61	C
ATOM 10224 CG LEU C 373	12.821 104.978 96.754 1.00 19.97	C
ATOM 10226 CD1 LEU C 373		C
ATOM 10230 CD2 LEU C 373		C
ATOM 10234 C LEU C 373		C
ATOM 10235 O LEU C 373	15.007 105.210 100.453 1.00 15.69	0
ATOM 10236 N ILE C 374		N
	16.471 107.496 100.747 1.00 14.92	С
ATOM 10240 CB ILE C 374		C
ATOM 10242 CG1 ILE C 374	17.863 108.868 99.174 1.00 13.50	С
ATOM 10245 CD1 ILE C 374	18.178 110.229 98.652 1.00 14.08	С
ATOM 10249 CG2 ILE C 374	18.094 109.237 101.625 1.00 15.97	C
ATOM 10253 C ILE C 374	16.148 107.247 102.242 1.00 15.39	C
ATOM 10254 O ILE C 374	16.804 106.436 102.899 1.00 14.33	0
ATOM 10255 N ALA C 375	15.139 107.940 102.759 1.00 15.76	N
ATOM 10257 CA ALA C 375	14.701 107.752 104.144 1.00 16.21	C
ATOM 10259 CB ALA C 375	13.529 108.715 104.488 1.00 16.50	C
ATOM 10263 C ALA C 375	14.301 106.315 104.430 1.00 16.30	С
ATOM 10264 O ALA C 375	14.640 105.778 105.504 1.00 16.83	О
ATOM 10265 N ILE C 376	13.603 105.675 103.487 1.00 16.26	N
ATOM 10267 CA ILE C 376	13.248 104.260 103.641 1.00 16.17	С
ATOM 10269 CB ILE C 376	12.388 103.765 102.483 1.00 15.65	С
ATOM 10271 CG1 ILE C 376	10.962 104.324 102.577 1.00 14.92	С
ATOM 10274 CD1 ILE C 376	10.252 104.412 101.217 1.00 13.64	С
ATOM 10278 CG2 ILE C 376	12.311 102.230 102.478 1.00 15.37	C
	2.2	_

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ATOM 10282 C ILE C 376 14.512 103.389 103.749 1.00 17.06 C ATOM 10283 O ILE C 376 14.534 102.404 104.506 1.00 17.32 0 ATOM 10284 N ASN C 377 15.543 103.744 102.976 1.00 17.57 N ATOM 10286 CA ASN C 377 16.820 103.013 102.968 1.00 17.73 C ATOM 10288 CB ASN C 377 17.752 103.496 101.848 1.00 17.99 C ATOM 10291 CG ASN C 377 18.896 102.520 101.578 1.00 19.82 \mathbf{C} ATOM 10292 OD1 ASN C 377 20.070 102.880 101.638 1.00 21.89 0 ATOM 10293 ND2 ASN C 377 18.552 101.269 101.319 1.00 21.75 N ATOM 10296 C ASN C 377 17.554 103.162 104.283 1.00 17.65 C ATOM 10297 O ASN C 377 18.123 102.204 104.772 1.00 17.41 0 ATOM 10298 N ILE C 378 17.523 104.362 104.861 1.00 17.48 N ATOM 10300 CA ILE C 378 18.224 104.627 106.099 1.00 17.47 C ATOM 10302 CB ILE C 378 18.164 106.130 106.434 1.00 17.43 C ATOM 10304 CG1 ILE C 378 18.964 106.953 105.415 1.00 18.45 C ATOM 10307 CD1 ILE C 378 18.754 108.508 105.545 1.00 18.06 C ATOM 10311 CG2 ILE C 378 18.768 106.411 107.814 1.00 18.61 C ATOM 10315 C ILE C 378 17.654 103.753 107.247 1.00 17.23 18.400 103.188 108.018 1.00 16.66 ATOM 10316 O ILE C 378 0 ATOM 10317 N PHE C 379 16.330 103.626 107.318 1.00 17.55 N ATOM 10319 CA PHE C 379 15.659 102.894 108.394 1.00 17.18 C ATOM 10321 CB PHE C 379 14.332 103.566 108.741 1.00 16.99 C ATOM 10324 CG PHE C 379 14.489 104.973 109.255 1.00 16.94 C ATOM 10325 CD1 PHE C 379 13.915 106.031 108.612 1.00 16.97 C ATOM 10327 CE1 PHE C 379 14.085 107.298 109.074 1.00 15.85 C ATOM 10329 CZ PHE C 379 14.825 107.539 110.174 1.00 15.48 C ATOM 10331 CE2 PHE C 379 15.408 106.515 110.832 1.00 16.69 C ATOM 10333 CD2 PHE C 379 15.260 105.233 110.367 1.00 18.66 C ATOM 10335 C PHE C 379 15.431 101.445 108.028 1.00 17.81 C ATOM 10336 O PHE C 379 14.307 100.966 108.065 1.00 18.46 0 ATOM 10337 N SER C 380 16.509 100.748 107.678 1.00 17.88 N ATOM 10339 CA SER C 380 16.485 99.310 107.441 1.00 17.98 \mathbf{C} ATOM 10341 CB SER C 380 17.496 98.909 106.356 1.00 17.76 C ATOM 10344 OG SER C 380 17.303 99.647 105.163 1.00 16.61 0 ATOM 10346 C SER C 380 16.903 98.662 108.728 1.00 18.11 C ATOM 10347 O SER C 380 17.982 98.947 109.228 1.00 18.24 0 ATOM 10348 N ALA C 381 16.077 97.768 109.256 1.00 18.87 N ATOM 10350 CA ALA C 381 16.282 97.263 110.629 1.00 19.14 C ATOM 10352 CB ALA C 381 15.004 96.671 111.221 1.00 18.10 C ATOM 10356 C ALA C 381 17.374 96.227 110.613 1.00 19.86 C ATOM 10357 O ALA C 381 17.918 95.904 111.649 1.00 20.58 0 ATOM 10358 N ASP C 382 17.720 95.740 109.426 1.00 20.78 N ATOM 10360 CA ASP C 382 18.578 94.574 109.308 1.00 21.80 C ATOM 10362 CB ASP C 382 18.049 93.631 108.217 1.00 22.59 C ATOM 10365 CG ASP C 382 17.712 94.340 106.924 1.00 25.32 C ATOM 10366 OD1 ASP C 382 18.345 95.372 106.572 1.00 28.27 0 ATOM 10367 OD2 ASP C 382 16.800 93.907 106.184 1.00 31.03 0 ATOM 10368 C ASP C 382 20.063 94.875 109.087 1.00 21.30 C ATOM 10369 O ASP C 382 20.850 93.961 108.880 1.00 21.67 0

ATOM	10370	N ARG C 383	20.464 96.133 109.158 1.00 20.76	N
		CA ARG C 383	21.870 96.458 108.966 1.00 20.40	C
ATOM	10374	CB ARG C 383	22.102 97.968 108.964 1.00 20.24	С
		CG ARG C 383		С
		CD ARG C 383	21.471 98.305 106.512 1.00 20.81	Č
		NE ARG C 383	21.060 99.411 105.651 1.00 23.05	N
		CZ ARG C 383	21.448 99.608 104.392 1.00 23.62	C
		NH1 ARG C 383	22.284 98.767 103.791 1.00 22.88	N
		NH2 ARG C 383	20.988 100.673 103.737 1.00 23.93	N
		C ARG C 383	22.705 95.828 110.072 1.00 20.60	c T
		O ARG C 383		Ö
				N
		N PRO C 384		C
			24.900 95.098 110.820 1.00 20.23	C
		CB PRO C 384		
			25.906 94.926 108.642 1.00 20.49	C
		CD PRO C 384	24.675 95.752 108.487 1.00 20.78	C
		C PRO C 384	24.938 96.050 112.006 1.00 20.18	C
		O PRO C 384		0
		N ASN C 385		N
			25.282 96.212 114.440 1.00 18.82	С
ATOM	10412	CB ASN C 385		C
		CG ASN C 385		С
ATOM	10416	OD1 ASN C 385	28.111 95.354 114.686 1.00 18.15	O
ATOM	10417	ND2 ASN C 385	28.423 96.653 112.887 1.00 20.05	N
ATOM	10420	C ASN C 385	24.105 97.015 114.988 1.00 17.94	С
ATOM	10421	O ASN C 385	24.272 97.731 115.967 1.00 17.75	O
ATOM	10422	N VAL C 386	22.920 96.870 114.404 1.00 17.31	N
ATOM	10424	CA VAL C 386	21.746 97.617 114.863 1.00 16.98	C
ATOM	10426	CB VAL C 386	20.583 97.561 113.834 1.00 16.96	C
ATOM	10428	CG1 VAL C 386	19.256 97.893 114.462 1.00 17.21	C
ATOM	10432	CG2 VAL C 386	20.843 98.519 112.699 1.00 16.77	C
ATOM	10436	C VAL C 386	21.323 97.075 116.230 1.00 16.99	С
		O VAL C 386	21.182 95.869 116.411 1.00 16.69	O
		N GLN C 387	21.143 97.971 117.198 1.00 16.81	N
		CA GLN C 387	20,861 97.554 118.568 1.00 17.01	С
		CB GLN C 387	21.595 98.454 119.582 1.00 17.44	C
		CG GLN C 387	23.103 98.095 119.742 1.00 19.87	C
		CD GLN C 387	23.773 98.768 120.958 1.00 25.61	Č
		OE1 GLN C 387	23.707 98.247 122.088 1.00 28.07	Ö
		NE2 GLN C 387	24.430 99.915 120.730 1.00 28.85	N
		C GLN C 387	19.351 97.492 118.800 1.00 16.32	C
		O GLN C 387	18.875 96.659 119.549 1.00 15.38	Ö
		N GLU C 388	18.594 98.331 118.095 1.00 16.53	N
-		CA GLU C 388	17.144 98.385 118.264 1.00 16.09	
		CB GLU C 388	16.764 99.681 118.965 1.00 16.06	C
		CG GLU C 388	17.286 99.703 120.404 1.00 18.42	C
-				C
_		CD GLU C 388	16.865 100.927 121.208 1.00 18.48	С
ATUM	10466	OE1 GLU C 388	16.985 102.090 120.720 1.00 15.22	0

ATOM 10467 OE2 GLU C 388	16.450 100.703 122.359 1.00 21.22	О
ATOM 10468 C GLU C 388	16.430 98.210 116.930 1.00 15.40	C
ATOM 10469 O GLU C 388	15.942 99.173 116.383 1.00 15.04	O
ATOM 10470 N PRO C 389	16.403 96.981 116.390 1.00 15.72	N
ATOM 10471 CA PRO C 389	15.651 96.688 115.150 1.00 15.71	С
ATOM 10473 CB PRO C 389	15.727 95.164 115.032 1.00 15.89	С
ATOM 10476 CG PRO C 389	16.318 94.659 116.329 1.00 14.99	C
ATOM 10479 CD PRO C 389	17.120 95.788 116.882 1.00 15.27	C
ATOM 10482 C PRO C 389	14.197 97.143 115.228 1.00 16.18	С
ATOM 10483 O PRO C 389	13.704 97.776 114.307 1.00 15.95	O
ATOM 10484 N GLY C 390	13.536 96.853 116.346 1.00 16.92	N
ATOM 10486 CA GLY C 390	12.155 97.279 116.556 1.00 16.79	С
ATOM 10489 C GLY C 390	11.889 98.750 116.344 1.00 17.11	С
ATOM 10490 O GLY C 390	10.893 99.093 115.718 1.00 17.75	О
ATOM 10491 N ARG C 391	12.745 99.629 116.878 1.00 17.66	N
ATOM 10493 CA ARG C 391	12.592 101.082 116.655 1.00 18.13	C
ATOM 10495 CB ARG C 391	13.614 101.934 117.413 1.00 18.77	C
ATOM 10498 CG ARG C 391	13.675 101.810 118.857 1.00 24.55	С
ATOM 10501 CD ARG C 391	14.683 102.805 119.477 1.00 29.16	С
ATOM 10504 NE ARG C 391	14.076 104.107 119.567 1.00 31.78	N
ATOM 10506 CZ ARG C 391	13.182 104.413 120.470 1.00 34.82	C
ATOM 10507 NH1 ARG C 391	12.835 103.520 121.392 1.00 36.74	N
ATOM 10510 NH2 ARG C 391	12.626 105.609 120.456 1.00 37.16	N
ATOM 10513 C ARG C 391	12.818 101.466 115.210 1.00 16.18	C
ATOM 10514 O ARG C 391	12.147 102.322 114.689 1.00 15.38	Õ
ATOM 10515 N VAL C 392	13.847 100.894 114.606 1.00 15.70	N
ATOM 10517 CA VAL C 392	14.229 101.269 113.247 1.00 15.66	C
ATOM 10519 CB VAL C 392	15.553 100.608 112.817 1.00 15.19	Č
ATOM 10521 CG1 VAL C 392	15.897 100.980 111.376 1.00 15.63	Č
ATOM 10525 CG2 VAL C 392	16.687 101.041 113.724 1.00 14.28	Č
ATOM 10529 C VAL C 392	13.081 100.953 112.282 1.00 15.55	C
ATOM 10529 C VAL C 392	12.685 101.791 111.480 1.00 14.85	Ö
ATOM 10531 N GLU C 393	12.511 99.764 112.435 1.00 16.20	N
ATOM 10533 CA GLU C 393	11.417 99.333 111.588 1.00 17.13	C
ATOM 10535 CB GLU C 393	11.121 97.859 111.816 1.00 17.76	č
ATOM 10538 CG GLU C 393	9.758 97.464 111.291 1.00 21.52	č
ATOM 10541 CD GLU C 393	9.695 96.060 110.805 1.00 25.44	Č
ATOM 10542 OE1 GLU C 393	9.791 95.881 109.555 1.00 28.53	Ö
ATOM 10542 OE1 GEO C 393	9.519 95.164 111.680 1.00 29.10	ŏ
ATOM 10545 CL2 GLU C 393	10.142 100.173 111.759 1.00 16.73	č
ATOM 10545 O GLU C 393	9.493 100.506 110.781 1.00 17.69	Õ
ATOM 10545 O GEO C 375 ATOM 10546 N ALA C 394	9.775 100.498 112.984 1.00 15.86	N
ATOM 10548 CA ALA C 394	8.653 101.398 113.245 1.00 15.54	C
ATOM 10550 CB ALA C 394	8.404 101.526 114.760 1.00 15.28	C
ATOM 10550 CB ALA C 394 ATOM 10554 C ALA C 394	8.851 102.788 112.623 1.00 15.35	C
ATOM 10555 O ALA C 394	7.879 103.395 112.117 1.00 14.06	0
ATOM 10556 N LEU C 395	10.096 103.275 112.652 1.00 15.22	N
ATOM 10558 CA LEU C 395	10.452 104.558 112.014 1.00 15.78	C
WIOM 10220 CW PEO C 383	10.732 107.331 112.014 1.00 13./8	C

ATOM	10560	CB LEU C 395	11.852 104.992 112.420 1.00 15.68	C
		CG LEU C 395	11.918 105.480 113.861 1.00 16.97	C
		CD1 LEU C 395	13.361 105.689 114.268 1.00 19.03	С
		CD2 LEU C 395	11.107 106.770 114.058 1.00 18.08	С
		C LEU C 395	10.355 104.529 110.485 1.00 16.08	С
		O LEU C 395	10.014 105.516 109.859 1.00 16.06	Ō
		N GLN C 396	10.642 103.382 109.894 1.00 16.66	N
		CA GLN C 396	10.517 103.229 108.459 1.00 17.47	C
		CB GLN C 396	11.134 101.895 108.028 1.00 17.68	Č
		CG GLN C 396	11.324 101.768 106.542 1.00 16.72	Č
		CD GLN C 396	11.835 100.405 106.179 1.00 18.42	Č
		OEI GLN C 396	11.147 99.393 106.369 1.00 18.27	ŏ
		NE2 GLN C 396	13.034 100.367 105.647 1.00 17.65	N
			9.072 103.279 107.956 1.00 17.63	C `
		C GLN C 396 O GLN C 396	8.821 103.809 106.869 1.00 17.64	Ö
ATOM			8.149 102.710 108.724 1.00 17.50	N
		N GLN C 397	6.740 102.654 108.344 1.00 18.27	C
		CA GLN C 397	5.859 102.191 109.506 1.00 19.03	C
		CB GLN C 397		C
		CG GLN C 397	4.431 101.773 109.037 1.00 23.38	C
		CD GLN C 397	3.449 101.459 110.189 1.00 26.76	
		OEI GLN C 397	2.222 101.632 110.031 1.00 28.67	0
		NE2 GLN C 397	3.983 100.997 111.327 1.00 26.27	N
		C GLN C 397	6.147 103.936 107.740 1.00 17.26	C
		O GLN C 397	5.620 103.884 106.635 1.00 17.45	0
		N PRO C 398	6.167 105.066 108.437 1.00 16.37	N
		CA PRO C 398	5.557 106.287 107.881 1.00 16.00	C
		CB PRO C 398	5.840 107.337 108.949 1.00 15.99	C
		CG PRO C 398	6.961 106.770 109.755 1.00 16.38	C
		CD PRO C 398	6.697 105.304 109.786 1.00 16.31	C
ATOM	10621	C PRO C 398	6.135 106.722 106.530 1.00 15.98	C
ATOM	10622	O PRO C 398	5.441 107.395 105.774 1.00 16.26	О
ATOM	10623	N TYR C 399	7.381 106.359 106.237 1.00 15.50	N
ATOM	10625	CA TYR C 399	8.010 106.723 104.975 1.00 15.01	C
ATOM	10627	CB TYR C 399	9.546 106.768 105.104 1.00 14.45	C
ATOM	10630	CG TYR C 399	10.020 107.922 106.008 1.00 14.13	С
ATOM	10631	CD1 TYR C 399	10.418 107.694 107.319 1.00 14.06	C
ATOM	10633	CE1 TYR C 399	10.834 108.727 108.141 1.00 15.10	С
ATOM	10635	CZ TYR C 399	10.846 110.016 107.658 1.00 12.68	C
ATOM	10636	OH TYR C 399	11.243 111.020 108.451 1.00 13.28	О
		CE2 TYR C 399	10.444 110.281 106.386 1.00 14.91	C
ATOM	10640	CD2 TYR C 399	10.028 109.218 105.558 1.00 14.31	C
ATOM	10642	C TYR C 399	7.542 105.801 103.869 1.00 15.21	С
ATOM	10643	O TYR C 399	7.317 106.255 102.759 1.00 15.21	O
		N VALC 400	7.391 104.519 104.175 1.00 15.84	N
=		CA VALC 400	6.772 103.571 103.248 1.00 16.94	С
		CB VALC 400	6.834 102.110 103.743 1.00 16.80	C
_		CG1 VAL C 400	6.125 101.182 102.760 1.00 16.87	C
		CG2 VAL C 400	8.278 101.667 103.916 1.00 17.11	Ċ
111 0111		1110	U.B. C 101.30 10 100 11111	

ATOM 10658 C	VAL C 400	5.319 103.962 102.969 1.00 17.15	С
ATOM 10659 O	VAL C 400		О
ATOM 10660 N	GLU C 401	4.562 104.267 104.023 1.00 18.06	N
ATOM 10662 CA	A GLU C 401	3.176 104.751 103.875 1.00 18.84	С
ATOM 10664 CI	3 GLU C 401	2.551 105.092 105.240 1.00 19.09	С
ATOM 10667 CO		1.929 103.886 105.935 1.00 21.89	С
ATOM 10670 CI		1.442 104.153 107.356 1.00 24.70	С
ATOM 10671 O		1.243 103.183 108.115 1.00 27.79	O
ATOM 10672 O		1.260 105.318 107.732 1.00 28.43	O
ATOM 10673 C		3.129 105.968 102.956 1.00 18.12	С
ATOM 10674 O		2.367 106.001 102.007 1.00 17.39	O
ATOM 10675 N		3.984 106.947 103.236 1.00 18.19	N
ATOM 10073 N		3.995 108.204 102.503 1.00 18.17	С
ATOM 10679 C		5.011 109.135 103.093 1.00 18.00	Č
ATOM 10673 C		4.270 107.995 101.005 1.00 18.61	C
ATOM 10083 C		3.631 108.618 100.154 1.00 18.66	Ō
ATOM 10685 N		5.213 107.114 100.694 1.00 18.75	Ň
ATOM 10083 N ATOM 10687 C.		5.619 106.879 99.321 1.00 19.05	C
ATOM 10687 C.		6.997 106.192 99.275 1.00 19.15	Č
ATOM 10692 C		7.513 105.797 97.878 1.00 18.67	Ċ
ATOM 10692 C		7.745 107.045 97.046 1.00 18.95	C
		8.780 104.956 97.957 1.00 16.47	C
ATOM 10698 C		4.572 106.054 98.554 1.00 19.21	c
ATOM 10702 C			0
ATOM 10703 O		3.910 105.140 99.253 1.00 19.19	N
ATOM 10704 N		2.799 104.395 98.684 1.00 19.67	C
ATOM 10706 C			C
ATOM 10708 C		2.269 103.363 99.684 1.00 19.97	C
ATOM 10711 C		1.005 102.569 99.318 1.00 20.24	
ATOM 10713 C	'	1.185 101.863 98.014 1.00 21.39	C
ATOM 10717 C		0.696 101.557 100.381 1.00 20.47	C
ATOM 10721 C			C
		1.176 105.328 97.187 1.00 20.57	0
ATOM 10723 N		1.372 106.259 99.235 1.00 20.27	N
ATOM 10725 C		0.396 107.334 99.022 1.00 20.15	C
ATOM 10727 C		0.272 108.202 100.288 1.00 20.21	C
ATOM 10730 O		-0.915 107.924 100.983 1.00 20.15	O
ATOM 10732 C		0.790 108.248 97.880 1.00 20.03	С
ATOM 10733 O	SER C 405	-0.031 108.543 97.020 1.00 20.53	О
ATOM 10734 N		2.044 108.702 97.896 1.00 20.00	N
ATOM 10736 C	A TYR C 406	2.552 109.688 96.939 1.00 19.97	С
ATOM 10738 C		3.997 110.093 97.260 1.00 19.91	C
ATOM 10741 C	G TYR C 406	4.514 111.222 96.395 1.00 18.94	С
ATOM 10742 C		4.398 112.542 96.797 1.00 18.21	C
ATOM 10744 C	E1 TYR C 406	4.847 113.586 95.972 1.00 18.94	C
ATOM 10746 C	Z TYR C 406	5.411 113.290 94.746 1.00 19.59	C
ATOM 10747 C	H TYR C 406	5.865 114.295 93.927 1.00 19.88	Ο
ATOM 10749 C		5.526 111.977 94.325 1.00 19.06	C
ATOM 10751 C		5.074 110.963 95.140 1.00 19.40	С

ATOM 10753	C TYR C 406	2.469 109.172 95.510 1.00 20.35	С
		2.047 109.898 94.626 1.00 20.27	ŏ
	N THR C 407		Ň
	CA THR C 407		C
	CB THR C 407		č
	OG1 THR C 407		O
	CG2 THR C 407		C
	C THR C 407		c
			0
	O THR C 407		N ⁻
	N ARG C 408		C
	CA ARG C 408		-
	CB ARG C 408		C
	CG ARG C 408		C
	CD ARG C 408		C
	NE ARG C 408	· ·	N
	CZ ARG C 408		C
		-3.199 103.126 97.604 1.00 39.24	N
		-5.401 102.442 97.467 1.00 39.84	N
ATOM 10791	C ARG C 408		С
	O ARG C 408		О
		-1.209 108.659 94.002 1.00 26.64	N
ATOM 10795	CA ILE C 409	-1.754 109.912 93.505 1.00 26.91	С
ATOM 10797	CB ILE C 409	-1.638 110.998 94.597 1.00 27.04	С
ATOM 10799	CG1 ILE C 409	-2.524 110.619 95.793 1.00 26.61	C
ATOM 10802	CD1 ILE C 409	-2.277 111.419 97.028 1.00 26.26	C
ATOM 10806	GCG2 ILE C 409	-2.001 112.382 94.029 1.00 26.68	C
ATOM 10810	C ILE C 409	-1.040 110.368 92.237 1.00 27.54	C
ATOM 10811	O ILE C 409	-1.668 110.954 91.354 1.00 28.11	O
ATOM 10812	N LYS C 410	0.259 110.098 92.134 1.00 28.09	N
ATOM 10814	CA LYS C 410	1.047 110.546 90.980 1.00 28.82	С
		2.559 110.495 91.278 1.00 28.98	C
		3.403 111.356 90.321 1.00 30.02	С
		4.840 110.867 90.222 1.00 30.46	С
	CE LYS C 410	5.799 111.947 89.723 1.00 31.05	С
	NZ LYS C 410	7.240 111.551 89.853 1.00 29.84	N
	C LYS C 410	0.712 109.774 89.692 1.00 28.70	С
	O LYS C 410	0.346 110.385 88.709 1.00 29.01	0
	N ARG C 411	0.867 108.449 89.701 1.00 28.92	N
	CA ARG C 411	0.430 107.583 88.601 1.00 29.15	C
	3 CB ARG C 411	1.606 106.837 87.950 1.00 29.26	Č
	CG ARG C 411	2.899 107.622 87.784 1.00 30.52	Č
	CD ARG C 411	3.182 108.149 86.369 1.00 31.58	Č
	NE ARG C 411	3.796 109.475 86.457 1.00 33.05	N
	CZ ARG C 411		C
-) NH1 ARG C 411		N
	NH2 ARG C 411		N
-	5 C ARGC 411	-0.590 106.549 89.094 1.00 29.28	C
	O ARG C 411	-0.255 105.380 89.239 1.00 29.32	0
WIOM 1092	O AROCHII	-0.233 103.360 63.233 1.00 23.32	J

ATOM 10858 N PRO C 412	-1.824 106.966 89.355 1.00 29.53	N
ATOM 10859 CA PRO C 412	-2.879 106.030 89.763 1.00 29.86	C
ATOM 10861 CB PRO C 412	-4.163 106.873 89.649 1.00 29.93	Ċ
ATOM 10864 CG PRO C 412	-3.753 108.184 89.010 1.00 29.82	Č
ATOM 10867 CD PRO C 412		Č
ATOM 10870 C PRO C 412	-3.001 104.756 88.908 1.00 30.29	C
ATOM 10871 O PRO C 412		Ö
ATOM 10872 N GLN C 413		N
ATOM 10874 CA GLN C 413		C
ATOM 10876 CB GLN C 413		C
ATOM 10879 CG GLN C 413		C
ATOM 10882 CD GLN C 413		C
ATOM 10883 OE1 GLN C 413		0
	-6.862 105.622 84.834 1.00 29.34	
ATOM 10887 C GLN C 413		N
ATOM 10888 O GLN C 413		C
ATOM 10889 N ASP C 414		0
ATOM 10891 CA ASP C 414	-0.708 103.024 87.225 1.00 31.99	N
		C
ATOM 10893 CB ASP C 414		C
ATOM 10896 CG ASP C 414		C
	2.879 100.856 86.272 1.00 33.13	0
ATOM 10898 OD2 ASP C 414		0
ATOM 10899 C ASP C 414		C
	1.710 102.258 89.188 1.00 32.08	O
ATOM 10901 N GLN C 415		N
	0.314 100.093 90.274 1.00 32.99	С
ATOM 10905 CB GLN C 415	200 25.51	C
ATOM 10908 CG GLN C 415		C
ATOM 10911 CD GLN C 415	21000000	C
ATOM 10912 OEI GLN C 415	-3.260 97.819 91.951 1.00 38.72	O
ATOM 10913 NE2 GLN C 415		N
ATOM 10916 C GLN C 415	1.00 32.01	С
ATOM 10917 O GLN C 415		O
ATOM 10918 N LEU C 416		N
ATOM 10920 CA LEU C 416	3.753 98.527 89.771 1.00 32.17	C
ATOM 10922 CB LEU C 416	4.034 97.516 88.657 1.00 32.29	C
ATOM 10925 CG LEU C 416	2.979 96.416 88.479 1.00 32.42	С
ATOM 10927 CD1 LEU C 416	3.251 95.656 87.204 1.00 33.06	С
ATOM 10931 CD2 LEU C 416	2.945 95.460 89.664 1.00 32.56	С
ATOM 10935 C LEU C 416	4.919 99.516 89.890 1.00 31.82	С
ATOM 10936 O LEU C 416	6.051 99.101 90.125 1.00 32.18	O
ATOM 10937 N ARG C 417	4.659 100.810 89.747 1.00 31.15	N
ATOM 10939 CA ARG C 417	5.718 101.799 89.922 1.00 30.76	С
ATOM 10941 CB ARG C 417	5.213 103.220 89.686 1.00 30.88	č
ATOM 10944 CG ARG C 417	5.774 103.872 88.419 1.00 32.56	Č
ATOM 10947 CD ARG C 417	6.769 104.984 88.659 1.00 33.06	č
ATOM 10950 NE ARG C 417	6.167 106.036 89.465 1.00 33.10	N
ATOM 10952 CZ ARG C 417	6.705 107.226 89.671 1.00 32.51	C
	1 11 12 13 15 17 17 17 17 17 17 17 17 17 17 17 17 17	J

	7.871 107.568 89.131 1.00 32.25	N
	6.069 108.083 90.440 1.00 32.59	N
ATOM 10959 C ARG C 417		C
ATOM 10960 O ARG C 417	7.484 101.677 91.523 1.00 29.82	0
ATOM 10961 N PHE C 418	5.370 101.677 92.304 1.00 28.71	N
ATOM 10963 CA PHE C 418		C
ATOM 10965 CB PHE C 418	4.577 101.748 94.635 1.00 27.27	С
ATOM 10968 CG PHE C 418	4.925 101.628 96.091 1.00 27.01	С
ATOM 10969 CD1 PHE C 418	5.796 102.527 96.686 1.00 25.81	C
ATOM 10971 CE1 PHE C 418	6.115 102.414 98.026 1.00 25.84	С
ATOM 10973 CZ PHE C 418	5.574 101.394 98.780 1.00 24.52	С
ATOM 10975 CE2 PHE C 418	4.721 100.493 98.194 1.00 25.16	С
ATOM 10977 CD2 PHE C 418	4.397 100.607 96.864 1.00 26.05	С
ATOM 10979 C PHE C 418	6.622 100.325 93.959 1.00 27.10	C
ATOM 10980 O PHE C 418	7.792 100.429 94.329 1.00 26.14	0
ATOM 10981 N PRO C 419	6.060 99.135 93.738 1.00 26.80	N
ATOM 10982 CA PRO C 419	6.844 97.900 93.856 1.00 26.96	С
ATOM 10984 CB PRO C 419	5.977 96.874 93.134 1.00 27.01	С
ATOM 10987 CG PRO C 419	4.610 97.353 93.378 1.00 27.08	C
	4.664 98.843 93.378 1.00 26.62	C
	8.223 97.993 93.211 1.00 26.84	C
ATOM 10994 O PRO C 419		Ō
ATOM 10995 N ARG C 420		N
	9.570 98.571 91.276 1.00 27.04	C
ATOM 10999 CB ARG C 420	9.361 99.034 89.840 1.00 27.39	Č
ATOM 11002 CG ARG C 420	8.656 98.054 88.947 1.00 27.46	Č
ATOM 11005 CD ARG C 420	8.183 98.684 87.646 1.00 29.39	Č
ATOM 11008 NE ARG C 420		N
ATOM 11010 CZ ARG C 420		Ċ
ATOM 11011 NH1 ARG C 420		N
ATOM 11014 NH2 ARG C 420	5.809 97.228 85.249 1.00 31.90	N
ATOM 11017 C ARG C 420		C
ATOM 11018 O ARG C 420	11.759 99.239 91.949 1.00 26.33	Ö
ATOM 11019 N MET C 421	10.060 100.578 92.549 1.00 27.61	N
ATOM 11021 CA MET C 421	10.885 101.478 93.363 1.00 27.93	C
ATOM 11023 CB MET C 421	10.045 102.620 93.907 1.00 28.32	Č
ATOM 11026 CG MET C 421	9.688 103.654 92.883 1.00 30.21	Č
ATOM 11029 SD MET C 421	8.716 104.966 93.627 1.00 32.58	S
ATOM 11030 CE MET C 421	9.940 105.809 94.482 1.00 33.19	Č
ATOM 11034 C MET C 421	11.521 100.734 94.534 1.00 27.79	C
ATOM 11035 O MET C 421	12.722 100.836 94.760 1.00 27.73	Ō
ATOM 11036 N LEU C 422	10.708 99.989 95.274 1.00 27.78	N
ATOM 11038 CA LEU C 422	11.202 99.217 96.408 1.00 27.79	C
ATOM 11040 CB LEU C 422	10.043 98.588 97.169 1.00 27.66	Č
ATOM 11043 CG LEU C 422	9.063 99.511 97.880 1.00 26.55	Ċ
ATOM 11045 CD1 LEU C 422	8.090 98.660 98.651 1.00 26.95	Č
ATOM 11049 CD2 LEU C 422	9.751 100.480 98.795 1.00 26.39	Č
ATOM 11053 C LEU C 422	12.150 98.114 95.956 1.00 28.12	C
		_

ATOM 11	1054	O LEU C 422	13.132 97.809 96.633 1.00 28.59	0
			11.870 97.534 94.798 1.00 28.33	N
			12.715 96.483 94.237 1.00 28.41	С
		CB MET C 423	12.081 95.934 92.979 1.00 28.75	С
		CG MET C 423	10.748 95.268 93.212 1.00 30.50	С
		SD MET C 423	10.930 93.534 93.490 1.00 35.50	Š
		CE MET C 423	9.884 92.827 92.200 1.00 34.00	Č
		C MET C 423	14.131 96.976 93.913 1.00 28.15	č
		O MET C 423	15.063 96.182 93.805 1.00 28.57	Ö
			14.294 98.281 93.741 1.00 27.55	N
		N LYS C 424	15.600 98.847 93.450 1.00 26.88	C
		CA LYS C 424	15.454 100.193 92.735 1.00 27.25	C
		CB LYS C 424		C
		CG LYS C 424		C
			15.579 99.556 90.226 1.00 27.94	C
ATOM 1	1085	CE LYS C 424	14.719 98.805 89.211 1.00 28.39	_
			15.410 98.585 87.902 1.00 29.25	N
		C LYS C 424	16.436 98.973 94.707 1.00 26.24	C
		O LYS C 424	17.655 99.041 94.625 1.00 26.48	0
		N LEUC 425	15.791 99.003 95.872 1.00 25.14	N
			16.506 98.866 97.129 1.00 24.15	C
		CB LEU C 425		C
		CG LEU C 425		C
			14.053 100.418 99.797 1.00 24.76	C
			15.812 101.618 98.508 1.00 22.52	C
ATOM 1	1111	C LEU C 425	17.197 97.482 97.189 1.00 23.59	С
		O LEU C 425		О
ATOM 1	1113	N VAL C 426	16.573 96.479 96.582 1.00 23.08	N
ATOM 1	1115	CA VAL C 426	17.171 95.149 96.491 1.00 23.43	C
ATOM 1	1117	CB VAL C 426	16.246 94.123 95.795 1.00 22.81	C
ATOM 1	1119	CG1 VAL C 426	16.890 92.781 95.767 1.00 22.20	C
ATOM 1	1123	CG2 VAL C 426	14.924 94.020 96.482 1.00 22.82	C
		C VAL C 426		C
ATOM 1	1128	O VAL C 426	19.526 94.762 96.105 1.00 24.43	О
		N SER C 427	18.359 95.812 94.502 1.00 25.52	N
		CA SER C 427	19.505 95.924 93.622 1.00 26.19	С
		CB SER C 427	19.065 96.482 92.262 1.00 26.30	С
		OG SER C 427	18.360 95.477 91.533 1.00 26.75	Ο
		C SER C 427	20.618 96.763 94.264 1.00 26.49	С
		O SER C 427	21.786 96.499 94.041 1.00 26.75	0
		N LEU C 428	20.245 97.742 95.084 1.00 26.85	N
		CA LEU C 428	21.201 98.598 95.801 1.00 27.26	C
		CB LEU C 428	20.470 99.730 96.531 1.00 27.07	C
		CG LEU C 428	20.240 101.034 95.800 1.00 27.26	C
-		CD1 LEU C 428	19.184 101.845 96.516 1.00 27.13	C
		CD2 LEU C 428	21.552 101.814 95.667 1.00 27.93	C
		C LEU C 428	22.017 97.855 96.854 1.00 27.70	c
		O LEU C 428	23.140 98.254 97.162 1.00 27.62	Ö
-		N ARG C 429	21.425 96.826 97.457 1.00 28.50	N
WI OIM I	1177	11 ANO C 429	21.74J 70.020 71.7J1 1.00 20.J0	1.4

ATOM 11161	CA ARG C 429	22.133 96.012 98.453 1.00 29.02	C
ATOM 11163	CB ARG C 429	21.210 94.976 99.098 1.00 29.00	C
ATOM 11166	CG ARG C 429	20.383 95.471 100.213 1.00 28.11	C
ATOM 11169	CD ARG C 429	21.178 96.085 101.350 1.00 28.39	С
ATOM 11172	NE ARG C 429	20.346 97.046 102.056 1.00 27.41	N
ATOM 11174	CZ ARG C 429	19.451 96.727 102.963 1.00 28.85	С
ATOM 11175	NH1 ARG C 429	19.265 95.468 103.322 1.00 31.15	N
ATOM 11178	NH2 ARG C 429	18.738 97.673 103.537 1.00 30.76	N
ATOM 11181	C ARG C 429	23.287 95.272 97.821 1.00 29.62	С
ATOM 11182	O ARG C 429	24.364 95.222 98.392 1.00 29.89	Ο
ATOM 11183	N THR C 430	23.046 94.695 96.647 1.00 30.50	N
ATOM 11185	CA THR C 430	24.082 93.960 95.920 1.00 31.56	C
ATOM 11187	CB THR C 430	23.477 93.160 94.730 1.00 31.43	C
ATOM 11189	OG1 THR C 430	22.265 92.503 95.126 1.00 31.34	О
ATOM 11191	CG2 THR C 430	24.389 92.000 94.338 1.00 31.71	C
ATOM 11195	C THR C 430	25.168 94.907 95.409 1.00 32.38	C
ATOM 11196	O THR C 430	26.358 94.618 95.511 1.00 32.48	O
ATOM 11197	N LEU C 431	24.738 96.043 94.873 1.00 33.48	N
ATOM 11199	CA LEU C 431	25.643 97.033 94.289 1.00 34.20	C
ATOM 11201	CB LEU C 431	24.832 98.140 93.596 1.00 34.11	C
ATOM 11204	CG LEU C 431	25.343 98.822 92.324 1.00 33.49	С
ATOM 11206	CD1 LEU C 431	26.590 98.178 91.752 1.00 33.07	C
ATOM 11210	CD2 LEU C 431	24.240 98.866 91.285 1.00 33.37	C
ATOM 11214	C LEU C 431	26.536 97.643 95.365 1.00 35.06	C
ATOM 11215	O LEU C 431	27.692 97.982 95.111 1.00 35.38	О
ATOM 11216	N SER C 432	25.988 97.769 96.568 1.00 35.73	N
ATOM 11218	CA SER C 432	26.733 98.282 97.704 1.00 36.37	C
ATOM 11220	CB SER C 432	25.800 98.485 98.901 1.00 36.43	C
	OG SER C 432	26.504 98.406 100.127 1.00 36.57	. 0
	C SER C 432	27.868 97.327 98.071 1.00 36.97	C
	O SER C 432		О
	N SER C 433	27.601 96.022 98.016 1.00 37.48	N
	CA SER C 433	28.627 95.009 98.299 1.00 37.95	C
	CB SER C 433	27.995 93.618 98.379 1.00 37.93	C
	OG SER C 433	28.968 92.652 98.721 1.00 37.61	О
	C SER C 433	29.790 94.991 97.291 1.00 38.16	C
	O SER C 433	30.820 94.381 97.553 1.00 38.14	О
	N VAL C 434	29.607 95.651 96.147 1.00 38.84	N
	CA VAL C 434	30.666 95.848 95.138 1.00 39.27	C
-	CB VAL C 434	30.044 96.250 93.744 1.00 39.17	C
	CG1 VAL C 434	30.315 97.718 93.380 1.00 39.12	С
	CG2 VAL C 434	30.531 95.330 92.633 1.00 39.40	C
	C VAL C 434	31.725 96.891 95.561 1.00 39.80	C
	O VAL C 434	32.823 96.916 95.006 1.00 39.88	0
	N HIS C 435	31.382 97.751 96.525 1.00 40.41	N
	CA HIS C 435	32.263 98.832 96.992 1.00 40.75	C
	CB HIS C 435	31.502 99.758 97.954 1.00 41.04	C
ATOM 11261	CG HIS C 435	32.197 101.061 98.230 1.00 41.83	С

ATOM 1126	52 ND1 HIS C 435	32.204 101.650 99.477 1.00 43.00	N
ATOM 1126	64 CE1 HIS C 435	32.880 102.784 99.426 1.00 42.90	C
ATOM 1126	66 NE2 HIS C 435	33.310 102.954 98.189 1.00 42.88	N
ATOM 1126	68 CD2 HIS C 435	32.895 101.892 97.420 1.00 42.60	C
ATOM 1127	70 C HIS C 435	33.530 98.341 97.683 1.00 40.75	С
	1 O HIS C 435	34.607 98.910 97.479 1.00 40.64	Ö
	⁷ 2 N SER C 436	33.394 97.313 98.519 1.00 40.83	N
ATOM 1127	4 CA SER C 436	34.549 96.701 99.182 1.00 40.81	C
	6 CB SER C 436	34.139 95.418 99.918 1.00 40.91	Č
	9 OG SER C 436	34.193 94.289 99.059 1.00 40.56	Ō
ATOM 1128	81 C SER C 436	35.655 96.390 98.176 1.00 40.74	C
ATOM 1128	32 O SER C 436	36.814 96.743 98.390 1.00 40.71	Ō
ATOM 1128	3 N GLU C 437	35.268 95.763 97.066 1.00 40.74	N
ATOM 1128	5 CA GLU C 437	36.197 95.305 96.030 1.00 40.71	C
	7 CB GLU C 437	35.425 94.739 94.828 1.00 40.67	C
ATOM 1129	00 CG GLU C 437	34.469 93.593 95.137 1.00 40.23	Ċ
ATOM 1129	3 CD GLU C 437	34.106 92.800 93.896 1.00 39.60	Ċ
ATOM 1129	4 OE1 GLU C 437	33.001 93.005 93.346 1.00 38.73	O
ATOM 1129	5 OE2 GLU C 437	34.936 91.976 93.465 1.00 38.66	O
ATOM 1129	6 C GLU C 437	37.138 96.401 95.522 1.00 40.81	С
ATOM 1129	7 O GLU C 437	38.340 96.162 95.354 1.00 40.76	O
ATOM 1129	8 N GLN C 438	36.585 97.589 95.268 1.00 40.83	N
ATOM 1130	0 CA GLN C 438	37.337 98.683 94.638 1.00 40.82	С
ATOM 1130	2 CB GLN C 438	36.410 99.883 94.373 1.00 40.70	C
ATOM 1130	5 CG GLN C 438	37.068 101.099 93.691 1.00 40.71	. C
ATOM 1130	8 CD GLN C 438	38.002 100.735 92.534 1.00 40.27	C
ATOM 1130	9 OE1 GLN C 438	37.560 100.554 91.396 1.00 39.98	C
ATOM 1131	0 NE2 GLN C 438	39.293 100.640 92.827 1.00 39.83	N
	3 C GLN C 438	38.566 99.108 95.459 1.00 40.82	С
	4 O GLN C 438	39.710 98.822 95.082 1.00 40.52	Ο
	5 N LEU D 220	-8.763 88.448 91.008 1.00 28.95	N
	7 CA LEU D 220	-7.657 87.934 90.143 1.00 29.15	C
	9 CB LEU D 220		C
	2 CG LEU D 220		C
			C
	8 CD2 LEU D 220	-4.615 87.140 89.884 1.00 30.06	C
	2 C LEU D 220	-8.182 87.431 88.804 1.00 29.19	C
	3 O LEU D 220	-9.391 87.338 88.604 1.00 29.21	О
	6 N THR D 221	-7.256 87.099 87.902 1.00 29.27	N
	8 CA THR D 221		С
		-6.913 87.534 85.479 1.00 29.32	\mathbf{C} .
	2 OG1 THR D 221	-5.692 88.106 85.984 1.00 28.79	О
	4 CG2 THR D 221	-7.801 88.749 85.171 1.00 29.41	C
	8 C THR D 221	-7.143 85.150 86.365 1.00 29.28	С
	9 O THR D 221	-6.549 84.553 87.258 1.00 29.18	0
	0 N ALA D 222	-7.456 84.577 85.203 1.00 29.31	N
	2 CA ALA D 222	-7.181 83.159 84.924 1.00 29.35	C
WION 11994	4 CB ALA D 222	-7.804 82.757 83.551 1.00 29.22	C

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		-5.656 82.809 84.958 1.00 29.44	
		-5.157 81.752 85.705 1.00 29.16	0
		-4.904 83.701 84.215 1.00 29.57	N
		-3.496 83.431 83.921 1.00 29.62	C
ATOM 11364 (-2.932 84.505 82.983 1.00 29.57	С
ATOM 11368 (C ALA D 223	-2.641 83.330 85.176 1.00 29.86	С
ATOM 11369 (O ALA D 223	-1.436 83.076 85.086 1.00 30.12	0
ATOM 11370 1	N GLN D 224	-3.268 83.533 86.336 1.00 29.94	N
ATOM 11372 (CA GLN D 224	-2.600 83.477 87.627 1.00 29.72	С
		-2.680 84.855 88.269 1.00 29.66	С
	CG GLN D 224		С
	CD GLN D 224		Č
		-3.157 87.082 86.012 1.00 29.53	Ö
		-2.494 88.193 87.890 1.00 27.96	N
		-3.196 82.396 88.546 1.00 29.88	C
			0
	O GLN D 224		
		-4.521 82.258 88.555 1.00 30.07	N
		-5.187 81.167 89.275 1.00 30.33	C
	CB GLU D 225		C
	CG GLU D 225		С
		-8.667 82.737 88.804 1.00 30.17	С
		-8.979 82.129 87.758 1.00 29.85	O
ATOM 11399	OE2 GLU D 225	-9.309 83.721 89.223 1.00 30.32	O
	C GLU D 225		C
	O GLU D 225		O
ATOM 11402		-4.276 79.602 87.650 1.00 30.89	N
		-3.532 78.429 87.191 1.00 31.09	С
		-3.299 78.511 85.679 1.00 31.16	Ċ
		-2.287 77.542 85.052 1.00 31.34	Č
ATOM 11411 A	CDITEILD 226	-2.850 76.125 85.020 1.00 31.59	Č
		-1.896 77.993 83.645 1.00 31.34	C
		-2.185 78.349 87.893 1.00 31.35	С
		-1.809 77.305 88.432 1.00 31.20	0
	N MET D 227		N
		-0.083 79.541 88.320 1.00 31.75	C
		0.609 80.786 87.720 1.00 31.89	C
	CG MET D 227		С
ATOM 11431		1.984 83.226 88.025 1.00 33.24	S
		1.224 83.647 86.440 1.00 33.06	C
ATOM 11436	C MET D 227	0.098 79.497 89.844 1.00 31.85	C
ATOM 11437	O MET D 227	1.213 79.295 90.315 1.00 31.82	O
ATOM 11438	N ILE D 228	-0.974 79.686 90.610 1.00 31.96	N
ATOM 11440	CA ILE D 228	-0.854 79.727 92.071 1.00 32.04	С
ATOM 11442	CB ILE D 228	-1.987 80.566 92.719 1.00 31.92	С
ATOM 11444	CG1 ILE D 228	-1.576 82.037 92.779 1.00 31.37	C
ATOM 11447		-2.743 82.991 92.849 1.00 31.33	Ċ
ATOM 11451		-2.328 80.067 94.127 1.00 31.73	Č
ATOM 11455		-0.827 78.305 92.614 1.00 32.37	c
100		Title Colored Said A Aire Called	~

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ATOM 11456 O ILE D 228	-0.010 77.988 93.473 1.00 32.44	O
ATOM 11457 N GLN D 229	-1.714 77.453 92.103 1.00 32.56	N
ATOM 11459 CA GLN D 229	-1.733 76.043 92.487 1.00 32.78	C
ATOM 11461 CB GLN D 229	-2.996 75.356 91.906 1.00 32.76	Ċ
ATOM 11464 CG GLN D 229		Č
ATOM 11467 CD GLN D 229	-4.744 75.524 93.763 1.00 32.75	Č
ATOM 11468 OE1 GLN D 229	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0
ATOM 11469 NE2 GLN D 229	-5.999 75.096 93.907 1.00 32.33	N
ATOM 11472 C GLN D 229	-0.440 75.350 91.982 1.00 33.05	C
ATOM 11473 O GLN D 229	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0
ATOM 11474 N GLN D 230		N
ATOM 11476 CA GLN D 230	1.166 75.417 90.043 1.00 33.55	С
ATOM 11478 CB GLN D 230	1.445 76.289 88.805 1.00 33.67	C
ATOM 11481 CG GLN D 230	1.826 75.540 87.551 1.00 33.91	C
ATOM 11484 CD GLN D 230	1.364 76.276 86.300 1.00 34.51	Č
ATOM 11485 OE1 GLN D 230	1.819 77.391 86.028 1.00 34.49	0
ATOM 11486 NE2 GLN D 230	0.447 75.665 85.549 1.00 34.29	N
ATOM 11489 C GLN D 230	2.374 75.467 90.930 1.00 33.43	C
ATOM 11490 O GLN D 230	3.046 74.460 91.141 1.00 33.59	0
ATOM 11491 N LEU D 231	2.641 76.661 91.446 1.00 33.40	N
ATOM 11493 CA LEU D 231		С
ATOM 11495 CB LEU D 231		C
ATOM 11498 CG LEU D 231	4.273 79.265 91.346 1.00 32.99	C
ATOM 11500 CD1 LEU D 231	4.425 80.740 91.736 1.00 32.52	С
ATOM 11504 CD2 LEU D 231	5.499 78.784 90.569 1.00 32.74	C
ATOM 11508 C LEU D 231	3.570 76.087 93.601 1.00 33.15	C
ATOM 11509 O LEU D 231	4.533 75.557 94.139 1.00 33.50	Ο
ATOM 11510 N VAL D 232	2.320 75.969 94.067 1.00 32.97	N
ATOM 11512 CA VAL D 232	2.039 75.248 95.312 1.00 33.17	C
ATOM 11514 CB VAL D 232		С
ATOM 11516 CG1 VAL D 232	0.318 74.585 97.064 1.00 32.90	С
ATOM 11520 CG2 VAL D 232	0.338 76.935 96.158 1.00 33.46	C
ATOM 11524 C VAL D 232	2.312 73.759 95.151 1.00 33.28	C
ATOM 11525 O VAL D 232	3.141 73.202 95.853 1.00 33.14	О
ATOM 11526 N ALA D 233	1.614 73.126 94.212 1.00 34.04	N
ATOM 11528 CA ALA D 233	1.718 71.673 93.992 1.00 34.23	C
ATOM 11530 CB ALA D 233	0.815 71.259 92.862 1.00 34.35	C
ATOM 11534 C ALA D 233	3.154 71.166 93.734 1.00 34.53	С
ATOM 11535 O ALA D 233	3.554 70.076 94.230 1.00 34.76	O
ATOM 11536 N ALA D 234	3.918 71.973 92.977 1.00 34.74	N
ATOM 11538 CA ALA D 234	5.344 71.719 92.709 1.00 35.05	С
ATOM 11540 CB ALA D 234	5.809 72.619 91.577 1.00 35.03	С
ATOM 11544 C ALA D 234	6.262 71.908 93.946 1.00 35.58	C
ATOM 11545 O ALA D 234	7.262 71.194 94.097 1.00 35.16	O
ATOM 11546 N GLN D 235	5.930 72.871 94.806 1.00 36.15	N
ATOM 11548 CA GLN D 235	6.654 73.071 96.071 1.00 36.99	C
ATOM 11550 CB GLN D 235 ATOM 11553 CG GLN D 235	6.310 74.438 96.707 1.00 36.87	С
ATOM 11333 CG GEN D 235	6.970 74.686 98.075 1.00 37.19	C

ATOM 1155	5 CD GLN D 235	7.619 76.055 98.190 1.00 37.14	С
ATOM 1155	7 OE1 GLN D 235	6.965 77.073 97.965 1.00 37.04	0
		8.903 76.083 98.550 1.00 37.27	N
	C GLN D 235	6.390 71.925 97.062 1.00 37.60	C
	2 O GLN D 235		Ö
	3 N LEU D 236		N
			C
		4.860 70.192 97.864 1.00 39.26	
	7 CB LEU D 236	3.338 70.064 97.978 1.00 39.43	C
	CG LEU D 236		C
		1.064 71.102 98.223 1.00 39.92	C
	6 CD2 LEU D 236	2.871 71.655 99.893 1.00 39.80	C
		5.452 68.850 97.430 1.00 39.81	С
ATOM 1158	1 O LEU D 236	5.643 67.956 98.261 1.00 39.67	0
ATOM 11582	2 N GLN D 237	5.726 68.711 96.131 1.00 40.68	N
ATOM 11584	4 CA GLN D 237	6.315 67.489 95.579 1.00 41.25	С
ATOM 11580	6 CB GLN D 237	5.821 67.226 94.145 1.00 41.13	С
	9 CG GLN D 237		С
	2 CD GLN D 237		С
		6.027 68.757 90.814 1.00 39.72	Ō
		5.012 66.857 91.504 1.00 40.17	N
		7.841 67.546 95.654 1.00 42.10	c
		8.510 66.563 95.380 1.00 42.26	ŏ
	9 N CYS D 238		N
		9.770 68.823 96.432 1.00 43.87	C
			_
	3 CB CYS D 238		C
	6 SG CYS D 238		S
	7 C CYS D 238		C
		10.759 67.856 98.409 1.00 44.25	0
		8.806 68.945 98.654 1.00 44.70	N
		8.702 68.694 100.086 1.00 45.10	C
		7.436 69.347 100.642 1.00 45.18	C
ATOM 11610	5 CG ASN D 239	7.578 69.744 102.095 1.00 45.80	C
ATOM 11617	7 OD1 ASN D 239	7.843 68.902 102.957 1.00 47.36	0
ATOM 11613	8 ND2 ASN D 239	7.398 71.032 102.377 1.00 45.05	N
ATOM 1162	1 C ASN D 239	8.682 67.208 100.414 1.00 45.50	С
ATOM 11622	2 O ASN D 239	9.311 66.770 101.377 1.00 45.49	O
ATOM 11623	3 N LYS D 240	7.960 66.444 99.594 1.00 46.10	N
	5 CA LYS D 240	7.731 65.027 99.833 1.00 46.33	С
	7 CB LYS D 240	6.397 64.592 99.208 1.00 46.56	C
	CG LYS D 240	5.141 65.058 99.956 1.00 46.25	Č
	3 CD LYS D 240	3.856 64.551 99.264 1.00 45.65	č
	6 CE LYS D 240	3.156 63.437 100.044 1.00 45.11	C
	9 NZ LYS D 240	1.688 63.399 99.770 1.00 44.72	N
	3 C LYS D 240	8.871 64.208 99.233 1.00 46.68	C
	4 O LYS D 240	9.504 63.410 99.925 1.00 46.55	
			0 N
	5 N ARG D 241	9.114 64.416 97.936 1.00 47.01	N
		10.142 63.696 97.173 1.00 47.21	C
ATUM 1164	9 CB ARG D 241	10.492 64.483 95.897 1.00 47.16	С

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ATOM 11652	CG ARG D 241	11.627 63.918 95.045 1.00 46.82	С
ATOM 11655	CD ARG D 241	11.567 64.331 93.563 1.00 46.58	C
ATOM 11658	NE ARG D 241	12.364 63.442 92.710 1.00 46.17	N
ATOM 11660	CZ ARG D 241	12.307 63.393 91.377 1.00 45.75	C
ATOM 11661	NH1 ARG D 241	11.483 64.181 90.689 1.00 45.44	N
ATOM 11664	NH2 ARG D 241	13.089 62.543 90.720 1.00 45.82	N
ATOM 11667	C ARG D 241	11.397 63.436 98.007 1.00 47.55	С
ATOM 11668	O ARG D 241	11.920 62.313 98.024 1.00 47.59	О
ATOM 11669	N SER D 242	11.862 64.474 98.701 1.00 47.87	N
ATOM 11671	CA SER D 242	12.994 64.360 99.614 1.00 48.11	C
ATOM 11673	CB SER D 242	14.130 65.283 99.158 1.00 48.20	C
ATOM 11676	OG SER D 242	14.748 64.781 97.974 1.00 47.67	O
ATOM 11678	C SER D 242	12.537 64.649 101.054 1.00 48.36	C
ATOM 11679	O SER D 242	12.852 65.690 101.633 1.00 48.19	Ο
ATOM 11680	N PHE D 243	11.771 63.697 101.595 1.00 48.74	N
ATOM 11682	CA PHE D 243	11.203 63.734 102.957 1.00 48.90	C
ATOM 11684	CB PHE D 243	9.680 63.930 102.863 1.00 49.16	C
ATOM 11687	CG PHE D 243	9.049 64.568 104.079 1.00 49.90	C
ATOM 11688	CD1 PHE D 243	9.309 65.895 104.404 1.00 50.91	C
ATOM 11690	CE1 PHE D 243	8.712 66.489 105.519 1.00 51.28	С
ATOM 11692	CZ PHE D 243	7.832 65.750 106.311 1.00 51.43	C
ATOM 11694	CE2 PHE D 243	7.556 64.428 105.985 1.00 51.08	С
ATOM 11696	CD2 PHE D 243	8.159 63.846 104.873 1.00 50.59	C
ATOM 11698	C PHE D 243	11.505 62.425 103.726 1.00 48.63	С
ATOM 11699	O PHE D 243	11.394 62.376 104.952 1.00 48.58	O
ATOM 11700	N SER D 244	11.849 61.364 102.996 1.00 48.29	N
ATOM 11702	CA SER D 244	12.382 60.144 103.592 1.00 48.06	С
ATOM 11704	CB SER D 244	11.270 59.310 104.218 1.00 48.10	С
ATOM 11707	OG SER D 244	10.746 58.391 103.277 1.00 47.55	O
ATOM 11709	C SER D 244	13.092 59.317 102.533 1.00 47.93	C
ATOM 11710	O SER D 244	14.311 59.167 102.573 1.00 47.82	Ο
ATOM 11711	N LYS D 248	17.681 58.291 106.502 1.00 23.61	N
ATOM 11713	CA LYS D 248	19.122 58.064 106.472 1.00 23.99	C
ATOM 11715	CB LYS D 248	19.499 57.007 105.410 1.00 24.25	C
ATOM 11718	CG LYS D 248	19.137 57.358 103.961 1.00 24.56	C
ATOM 11721	CD LYS D 248	19.346 56.148 103.041 1.00 24.62	C
ATOM 11724	CE LYS D 248	18.163 55.183 103.058 1.00 24.46	С
ATOM 11727	NZ LYS D 248	18.102 54.398 101.778 1.00 25.51	N
ATOM 11731	C LYS D 248	19.917 59.357 106.268 1.00 23.95	С
ATOM 11732	O LYS D 248	20.826 59.416 105.435 1.00 23.68	Ο
ATOM 11733	N VAL D 249	19.535 60.397 107.025 1.00 24.26	N
ATOM 11735	CA VAL D 249	20.399 61.558 107.303 1.00 24.27	. C
ATOM 11737	CB VAL D 249	19.578 62.852 107.446 1.00 24.61	C
ATOM 11739	CG1 VAL D 249	20.201 63.839 108.484 1.00 25.06	С
ATOM 11743	CG2 VAL D 249	19.440 63.533 106.095 1.00 24.50	C
ATOM 11747	C VAL D 249	21.208 61.299 108.596 1.00 24.25	C
ATOM 11748	O VAL D 249	20.827 60.454 109.439 1.00 25.68	О
ATOM 11749	N THR D 250	22.350 61.969 108.718 1.00 23.74	N

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ATOM	11751	CA THR D 250	23.272 61.701 109.820 1.00 23.91	C
ATOM	11753	CB THR D 250	24.543 62.578 109.695 1.00 23.77	С
ATOM	11755	OG1 THR D 250	25.365 62.086 108.617 1.00 26.19	0
		CG2 THR D 250	25.424 62.428 110.942 1.00 24.26	C
		C THR D 250	22.520 62.005 111.099 1.00 23.00	c
		O THR D 250	22.155 63.151 111.273 1.00 23.62	Ö
			22.290 61.031 111.999 1.00 22.63	N
		N PRO D 251		
		CA PRO D 251		C
		CB PRO D 251	21.455 59.981 113.949 1.00 22.27	C
		CG PRO D 251		C
			22.839 59.655 112.042 1.00 21.97	С
ATOM	11775	C PRO D 251	21.941 62.446 114.002 1.00 22.45	С
ATOM	11776	O PRO D 251	23.142 62.692 114.044 1.00 22.32	O
ATOM	11777	N TRP D 252	21.022 63.154 114.645 1.00 22.89	N
		CA TRP D 252	21.355 64.180 115.621 1.00 23.20	С
		CB TRP D 252	20.140 65.080 115.841 1.00 23.25	C
		CG TRP D 252	20.347 66.211 116.785 1.00 22.82	Č
			19.884 66.301 118.071 1.00 23.00	C
		NE1 TRP D 252	20.249 67.508 118.619 1.00 22.54	N
		CE2 TRP D 252	20.961 68.223 117.693 1.00 20.94	C
		CD2 TRP D 252		C
		CE3 TRP D 252		C
ATOM	11793	CZ3 TRP D 252		C
ATOM	11795	CH2 TRP D 252	22.194 69.963 116.688 1.00 19.35	C
ATOM	11797	CZ2 TRP D 252	21.545 69.484 117.790 1.00 20.08	C
ATOM	11799	C TRP D 252	21.736 63.472 116.928 1.00 23.76	C
ATOM	11800	O TRP D 252	20.969 62.645 117.429 1.00 23.42	O
		N PRO D 253	22.905 63.792 117.483 1.00 24.27	N
			23.396 63.095 118.684 1.00 24.96	C
		CB PRO D 253		č
		CG PRO D 253		Č
				C
		CD PRO D 253		
		C PRO D 253	22.630 63.460 119.965 1.00 25.47	C
		O PRO D 253	22.438 64.633 120.217 1.00 25.12	0
		N LEU D 254	22.229 62.467 120.758 1.00 26.64	N
		CA LEU D 254	21.485 62.709 122.000 1.00 27.24	C
ATOM	11819	CB LEU D 254	19.976 62.544 121.766 1.00 27.66	C
ATOM	11822	CG LEU D 254	19.017 63.271 122.725 1.00 28.68	С
ATOM	11824	CD1 LEU D 254	17.671 63.554 122.025 1.00 29.38	С
ATOM	11828	CD2 LEU D 254	18.808 62.484 124.047 1.00 28.27	С
ATOM	11832	C LEU D 254	21.955 61.747 123.077 1.00 27.16	С
ATOM			23.095 61.829 123.524 1.00 27.35	Ō
= ' '		N ALA D 263	30.857 65.517 119.743 1.00 15.82	N
- '		CA ALA D 263	29.511 66.081 119.841 1.00 15.12	C
		CB ALA D 263	29.334 66.786 121.199 1.00 15.15	C
			29.243 67.060 118.699 1.00 15.39	
_		C ALA D 263		С
		O ALA D 263	28.303 66.893 117.915 1.00 15.04	0
AIOM	11844	N ARG D 264	30.098 68.077 118.619 1.00 15.54	N

ATOM	11846	CA ARG D 264	29.892 69.248 117.769 1.00 15.58	C
		CB ARG D 264	30.954 70.302 118.100 1.00 15.89	С
		CG ARG D 264	30.868 71.599 117.300 1.00 17.92	С
		CD ARG D 264	32.120 72.463 117.405 1.00 21.06	С
		NE ARG D 264	32.058 73.391 118.544 1.00 23.59	N
		CZ ARG D 264	33.010 73.564 119.469 1.00 24.08	С
		NH1 ARG D 264	34.143 72.872 119.436 1.00 24.73	N
		NH2 ARG D 264	32.822 74.448 120.445 1.00 24.83	N
		C ARG D 264	29.960 68.951 116.281 1.00 15.32	С
-		O ARG D 264	29.230 69.545 115.484 1.00 16.01	O
		N GLN D 265	30.875 68.083 115.896 1.00 14.71	N
		CA GLN D 265	31.051 67.768 114.501 1.00 14.45	С
		CB GLN D 265	32.249 66.810 114.335 1.00 14.27	С
		CG GLN D 265	32.745 66.608 112.924 1.00 15.64	С
		CD GLN D 265	32.846 67.907 112.170 1.00 17.15	С
		OE1 GLN D 265	33.325 68.907 112.706 1.00 20.03	O
		NE2 GLN D 265	32.355 67.925 110.934 1.00 18.99	N
		C GLN D 265	29.761 67.158 113.938 1.00 13.72	C
		O GLN D 265	29.284 67.510 112.836 1.00 13.91	Ō
		N GLN D 266	29.188 66.252 114.739 1.00 12.91	N
		CA GLN D 266	28.149 65.325 114.235 1.00 11.84	C
		CB GLN D 266	27.945 64.059 115.134 1.00 11.26	Č
		CG GLN D 266	26.835 63.221 114.605 1.00 10.67	C
		CD GLN D 266	26.473 62.038 115.472 1.00 9.95	Č
		OE1 GLN D 266	27.441 61.240 115.906 1.00 14.03	o
		NE2 GLN D 266	25.095 61.840 115.695 1.00 9.62	N
		C GLN D 266	26.893 66.124 114.044 1.00 10.73	C
		O GLN D 266	26.124 65.836 113.138 1.00 10.79	Ŏ
		N ARG D 267	26.711 67.150 114.880 1.00 10.72	Ň
		CA ARG D 267		C
		CB ARG D 267	25.658 69.131 115.851 1.00 10.02	Č
		CG ARG D 267	25.292 68.491 117.165 1.00 11.16	Č
		CD ARG D 267	25.501 69.363 118.383 1.00 12.48	Č
		NE ARG D 267	24.643 68.881 119.462 1.00 14.21	N
		CZ ARG D 267	24.994 68.041 120.411 1.00 14.60	C
		NH1 ARG D 267	26.225 67.555 120.483 1.00 16.97	N
		NH2 ARG D 267	24.093 67.674 121.302 1.00 16.03	N
		C ARG D 267	25.821 68.885 113.371 1.00 8.78	С
		O ARG D 267	24.841 69.132 112.648 1.00 8.97	Ö
		N PHE D 268	27.054 69.283 113.095 1.00 7.58	N
=		CA PHE D 268	27.375 70.047 111.908 1.00 8.70	C
		CB PHE D 268	28.790 70.601 112.062 1.00 8.84	Č
		CG PHE D 268	29.219 71.516 110.957 1.00 10.11	C
		CD1 PHE D 268	28.729 72.811 110.887 1.00 11.63	C
		CE1 PHE D 268	29.142 73.670 109.868 1.00 11.77	Č
=		CZ PHE D 268	30.060 73.230 108.922 1.00 12.70	C
_		CE2 PHE D 268	30.562 71.937 108.989 1.00 11.80	C
		CD2 PHE D 268	30.145 71.092 110.003 1.00 11.22	C
VI OM	11/74	OD2 111L D 200	JULITA / 1.072 110.003 1.00 11.22	C

		C DITT D 0 (0		_
			27.245 69.208 110.625 1.00 9.18	C
		O PHE D 268		0
		N ALA D 269	27.602 67.917 110.723 1.00 10.13	N
		CA ALA D 269	27.536 66.911 109.618 1.00 10.21	C
ATOM	11950	CB ALA D 269	28.250 65.598 110.063 1.00 10.31	C
ATOM	11954	C ALA D 269	26.083 66.592 109.228 1.00 10.91	C
ATOM	11955	O ALA D 269	25.729 66.630 108.035 1.00 12.36	Ο
ATOM	11956	N HIS D 270	25.258 66.372 110.264 1.00 11.18	N
ATOM	11958	CA HIS D 270	23.750 66.466 110.215 1.00 11.49	C
ATOM	11960	CB HIS D 270	23.176 66.476 111.661 1.00 11.52	С
		CG HIS D 270	21.683 66.484 111.742 1.00 10.43	С
		ND1 HIS D 270	20.923 65.342 111.597 1.00 11.21	N
		CE1 HIS D 270	19.646 65.643 111.764 1.00 10.17	С
		NE2 HIS D 270	19.553 66.931 112.026 1.00 10.35	N
		CD2 HIS D 270	20.813 67.478 112.029 1.00 10.38	C
		C HIS D 270	23.211 67.698 109.459 1.00 11.03	c
		O HIS D 270	22.516 67.540 108.464 1.00 10.07	ŏ
		N PHE D 271		N
		CA PHE D 271		C
		CB PHE D 271		C
		CG PHE D 271		C
				C
		CD1 PHE D 271	·	
		CE1 PHE D 271		C
		CZ PHE D 271		C
		CE2 PHE D 271		C
		CD2 PHE D 271	23.197 72.161 112.507 1.00 15.14	C
		C PHE D 271	23.384 70.355 107.899 1.00 13.45	C
		O PHE D 271		0
			24.621 70.002 107.553 1.00 13.98	N
			25.086 70.246 106.173 1.00 14.53	C
		CB THR D 272		C
ATOM	12000	OG1 THR D 272	27.122 68.943 106.475 1.00 15.24	C
ATOM	12002	CG2 THR D 272	27.306 71.190 107.012 1.00 15.84	C
ATOM	12006	C THR D 272	24.445 69.214 105.206 1.00 14.43	С
ATOM	12007	O THR D 272	24.234 69.486 104.024 1.00 14.03	Ο
ATOM	12008	N GLU D 273	24.099 68.056 105.755 1.00 14.40	N
ATOM	12010	CA GLU D 273	23.338 67.043 105.059 1.00 14.64	C
ATOM	12012	CB GLU D 273	23.426 65.719 105.819 1.00 14.96	C
ATOM	12015	CG GLU D 273	24.778 65.038 105.647 1.00 16.16	С
		CD GLU D 273	24.830 63.592 106.169 1.00 18.32	С
		OE1 GLU D 273		0
		OE2 GLU D 273		0
-		C GLU D 273	21.888 67.443 104.842 1.00 15.07	С
		O GLU D 273	21.340 67.154 103.794 1.00 14.78	Ö
_		N LEU D 274	21.272 68.137 105.805 1.00 16.32	N
		CA LEU D 274	19.953 68.721 105.606 1.00 16.15	C
-		CB LEU D 274	19.436 69.337 106.928 1.00 16.45	Č
-		CG LEU D 274	19.056 68.335 108.026 1.00 16.01	C
W I OIM	12030	CO 110 D 2/4	17.030 00.333 100.020 1.00 10.01	C

ATOM	12032	CD1 LEU D 274	18.540 69.067 109.263 1.00 16.34	С
ATOM	12036	CD2 LEU D 274	18.000 67.367 107.499 1.00 16.01	C
ATOM	12040	C LEU D 274	20.056 69.776 104.516 1.00 16.68	С
ATOM	12041	O LEU D 274	19.120 69.983 103.737 1.00 17.92	Ο
ATOM	12042	N ALA D 275	21.186 70.471 104.489 1.00 16.79	N
		CA ALA D 275	21.356 71.617 103.597 1.00 16.89	C
			22.500 72.509 104.061 1.00 16.76	C
		C ALA D 275		C
		O ALA D 275		Ö
		N ILE D 276	22.090 69.900 102.066 1.00 17.87	N
		CA ILE D 276		C
		CB ILE D 276		Č
		CG1 ILE D 276	24.608 68.473 100.639 1.00 18.87	C
		CD1 ILE D 276	25.608 67.385 100.887 1.00 18.69	Č
		CG2 ILE D 276	22.794 67.012 99.727 1.00 18.15	Č
		C ILE D 276	20.832 68.935 100.221 1.00 18.77	C
		O ILE D 276	20.526 69.241 99.077 1.00 18.97	Õ
		N ILE D 277	20.001 68.310 101.058 1.00 19.19	N
			18.626 67.977 100.694 1.00 19.42	C
			17.814 67.396 101.907 1.00 19.72	Č
		CG1 ILE D 277		C
			19.224 65.322 101.768 1.00 19.65	C
			16.448 66.914 101.453 1.00 20.12	C
		C ILE D 277	17.908 69.228 100.193 1.00 19.62	С
		O ILE D 277	17.204 69.171 99.196 1.00 19.60	o
			18.096 70.353 100.885 1.00 19.92	N
			17.355 71.567 100.574 1.00 20.02	C
			17.558 72.644 101.655 1.00 19.97	C
			18.492 73.625 101.252 1.00 21.92	o
			17.740 72.073 99.180 1.00 19.78	c
			16.882 72.363 98.358 1.00 19.35	Ö
			19.040 72.165 98.936 1.00 19.89	N
			19.576 72.580 97.641 1.00 19.81	C
		CB VAL D 279		C
		CG1 VAL D 279		C
		CG2 VAL D 279		C
		C VAL D 279	18.982 71.734 96.522 1.00 20.45	c
		O VAL D 279	18.659 72.259 95.466 1.00 19.99	Ö
		N GLN D 280	18.835 70.432 96.767 1.00 19.99	N
		CA GLN D 280	18.253 69.518 95.793 1.00 21.89	C
		CB GLN D 280	18.454 68.061 96.226 1.00 22.04	C
		CG GLN D 280	19.872 67.550 95.960 1.00 22.96	C
		CD GLN D 280	20.046 66.071 96.261 1.00 24.00	C
		OE1 GLN D 280 NE2 GLN D 280		0 N
				N
		C GLN D 280	16.774 69.799 95.496 1.00 22.33	C
		O GLN D 280		O N
ATUM	12134	N GLU D 281	16.010 70.205 96.500 1.00 22.93	N

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ATOM 12136 CA GLU D 281	14.615 70.609 96.310 1.00 23.51	С
ATOM 12138 CB GLU D 281	13.922 70.779 97.667 1.00 23.43	
ATOM 12141 CG GLU D 281		C
ATOM 12144 CD GLU D 281		C
ATOM 12145 OE1 GLU D 281		0
	12.861 70.465 100.359 1.00 24.67	-
	14.496 71.921 95.542 1.00 23.98	O
	13.561 72.114 94.762 1.00 24.80	C
	15.439 72.823 95.774 1.00 23.97	0
	15.439 72.823 93.774 1.00 23.97	N
	16.421 75.055 95.838 1.00 23.78	C
		C
	15.867 75.383 97.240 1.00 24.74	C
	16.916 75.591 98.309 1.00 23.97	C
	16.662 76.327 95.020 1.00 23.83	C
	15.751 73.985 93.600 1.00 24.22	С
	15.155 74.682 92.787 1.00 24.55	О
	16.670 73.097 93.234 1.00 24.41	N
	16.956 72.791 91.820 1.00 24.66	С
	18.235 71.912 91.676 1.00 24.33	C
	18.391 71.373 90.260 1.00 24.13	С
	19.473 72.705 92.072 1.00 23.75	С
	15.761 72.083 91.163 1.00 25.36	C
ATOM 12183 O VAL D 283	15.421 72.357 90.018 1.00 25.75	O
ATOM 12184 N ASP D 284	15.122 71.179 91.895 1.00 26.12	N
ATOM 12186 CA ASP D 284	13.939 70.481 91.407 1.00 26.56	C
ATOM 12188 CB ASP D 284	13.477 69.450 92.449 1.00 26.78	C
	14.515 68.305 92.682 1.00 27.85	C
	14.259 67.409 93.538 1.00 30.00	O
	15.603 68.210 92.054 1.00 30.37	Ŏ
ATOM 12194 C ASP D 284		C
ATOM 12195 O ASP D 284	12.044 71.260 90.179 1.00 27.02	Ö
	12.622 72.446 91.989 1.00 27.53	N
	11.417 73.279 91.953 1.00 27.94	C
ATOM 12200 CB PHE D 285		C
ATOM 12203 CG PHE D 285	10.176 75.093 93.245 1.00 29.17	C
ATOM 12204 CD1 PHE D 285	8.851 74.690 93.166 1.00 29.61	Č
ATOM 12206 CE1 PHE D 285	7.821 75.630 93.177 1.00 30.27	C
ATOM 12208 CZ PHE D 285	8.110 76.986 93.266 1.00 30.56	C
ATOM 12210 CE2 PHE D 285	9.431 77.402 93.358 1.00 31.11	
	10.456 76.454 93.341 1.00 30.82	C
ATOM 12214 C PHE D 285	11.439 74.241 90.750 1.00 28.00	C
ATOM 12214 C THE D 285		C
ATOM 12215 O FRE D 285 ATOM 12216 N ALA D 286	10.438 74.409 90.017 1.00 27.92	0
ATOM 12218 CA ALA D 286	12.590 74.880 90.566 1.00 28.10	N
ATOM 12218 CA ALA D 286 ATOM 12220 CB ALA D 286	12.730 75.968 89.602 1.00 27.97	C
	14.056 76.692 89.813 1.00 28.07	С
ATOM 12224 C ALA D 286	12.596 75.475 88.170 1.00 28.29	C
ATOM 12225 U ALA D 286	12.360 76.262 87.255 1.00 28.87	0
ATOM 12226 N LYS D 287	12.734 74.169 87.968 1.00 28.01	N

ATOM	12228	CA LYS D 287	12.422 73.559 86.676 1.00 27.63	С
ATOM	12230	CB LYS D 287	12.979 72.134 86.616 1.00 27.51	С
ATOM	12233	CG LYS D 287	14.495 72.052 86.779 1.00 27.18	С
ATOM	12236	CD LYS D 287	15.172 71.370 85.606 1.00 26.98	С
ATOM	12239	CE LYS D 287	16.398 70.598 86.049 1.00 26.86	С
ATOM	12242	NZ LYS D 287	17.334 71.436 86.856 1.00 27.39	N
ATOM	12246	C LYS D 287	10.913 73.524 86.373 1.00 27.49	C
ATOM	12247	O LYS D 287	10.516 73.471 85.203 1.00 27.79	O
ATOM	12248	N GLN D 288	10.091 73.531 87.422 1.00 27.27	N
ATOM	12250	CA GLN D 288	8.626 73.517 87.304 1.00 26.99	С
ATOM	12252	CB GLN D 288	7.953 72.736 88.465 1.00 27.01	C
ATOM	12255	CG GLN D 288	8.863 71.878 89.396 1.00 26.76	C
ATOM	12258	CD GLN D 288	9.458 70.660 88.723 1.00 25.89	C
ATOM	12259	OE1 GLN D 288	9.535 70.602 87.493 1.00 25.79	Ο
ATOM	12260	NE2 GLN D 288	9.897 69.684 89.528 1.00 25.05	N
ATOM	12263	C GLN D 288	8.043 74.941 87.257 1.00 26.93	C
ATOM	12264	O GLN D 288	6.844 75.108 87.028 1.00 26.61	Ο
ATOM	12265	N VAL D 289	8.877 75.955 87.517 1.00 27.06	N
ATOM	12267	CA VAL D 289	8.426 77.352 87.510 1.00 27.16	C
ATOM	12269	CB VAL D 289	9.379 78.326 88.303 1.00 27.22	C
ATOM	12271	CG1 VAL D 289	8.891 79.799 88.205 1.00 27.25	C
ATOM	12275	CG2 VAL D 289	9.470 77.922 89.763 1.00 26.81	C
ATOM	12279	C VAL D 289	8.328 77.764 86.051 1.00 27.19	C
ATOM	12280	O VAL D 289	9.332 77.715 85.335 1.00 27.05	Ο
ATOM	12281	N PRO D 290	7.126 78.142 85.605 1.00 27.38	N
ATOM	12282	CA PRO D 290	6.897 78.447 84.183 1.00 27.53	C
ATOM	12284	CB PRO D 290	5.381 78.718 84.093 1.00 27.35	C
ATOM	12287	CG PRO D 290	4.873 78.829 85.482 1.00 27.65	C
ATOM	12290	CD PRO D 290	5.898 78.282 86.415 1.00 27.30	C
ATOM	12293	C PRO D 290	7.699 79.645 83.668 1.00 27.65	C
ATOM	12294	O PRO D 290	7.530 80.781 84.151 1.00 27.72	0
ATOM	12295	N GLY D 291	8.566 79.374 82.686 1.00 27.90	N
ATOM	12297	CA GLY D 291	9.396 80.402 82.090 1.00 28.23	С
ATOM	12300	C GLY D 291	10.813 80.395 82.622 1.00 28.44	C
ATOM	12301	O GLY D 291	11.585 81.323 82.353 1.00 28.97	О
ATOM	12302	N PHE D 292	11.153 79.359 83.390 1.00 28.38	N
ATOM	12304	CA PHE D 292	12.541 79.097 83.782 1.00 28.34	C
		CB PHE D 292	12.582 78.421 85.153 1.00 28.26	C
ATOM	12309	CG PHE D 292	13.969 78.304 85.731 1.00 28.51	C
		CD1 PHE D 292	14.585 79.403 86.346 1.00 29.08	C
		CE1 PHE D 292	15.864 79.289 86.895 1.00 29.07	C
		CZ PHE D 292	16.528 78.066 86.840 1.00 29.24	C
		CE2 PHE D 292	15.913 76.964 86.240 1.00 28.66	C
		CD2 PHE D 292	14.644 77.089 85.698 1.00 28.29	C
		C PHE D 292	13.219 78.216 82.691 1.00 28.38	C
		O PHE D 292	14.393 78.434 82.310 1.00 28.41	0
		N LEU D 293	12.476 77.232 82.184 1.00 28.18	N
ATOM	12324	CA LEU D 293	12.965 76.387 81.080 1.00 28.35	C

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		12.044 75.182 80.835 1.00 28.15	C
		11.584 74.346 82.039 1.00 28.44	C
		10.516 73.358 81.587 1.00 27.76	C
		12.746 73.629 82.737 1.00 28.24	C
	12339 C LEU D 293	13.079 77.204 79.787 1.00 28.33	C
	12340 O LEU D 293	13.997 77.010 78.991 1.00 28.19	0
	12341 N GLN D 294		N
		12.107 79.057 78.475 1.00 28.18	C
	12345 CB GLN D 294	10.831 79.920 78.570 1.00 28.28	C
	12348 CG GLN D 294		C
	12351 CD GLN D 294		C
		9.567 82.632 78.443 1.00 27.74	0
		10.861 83.053 76.639 1.00 26.90	N
	12356 C GLN D 294	13.353 79.970 78.391 1.00 28.23	С
ATOM	12357 O GLN D 294		О
	12358 N LEU D 295		N
		15.302 80.897 79.636 1.00 28.11	C
ATOM	12362 CB LEU D 295	15.630 81.226 81.121 1.00 28.04	C
ATOM	12365 CG LEU D 295	15.554 82.709 81.532 1.00 28.57	C
ATOM	12367 CD1 LEU D 295	15.640 82.876 83.056 1.00 28.80	C
ATOM	12371 CD2 LEU D 295	16.640 83.533 80.833 1.00 28.63	C
ATOM	12375 C LEU D 295	16.495 80.163 78.975 1.00 27.70	C
ATOM	12376 O LEU D 295	16.357 79.018 78.529 1.00 27.52	Ο
ATOM	12377 N GLY D 296	17.653 80.835 78.927 1.00 27.22	N
ATOM	12379 CA GLY D 296	18.927 80.182 78.639 1.00 26.39	С
ATOM	12382 C GLY D 296	19.314 79.225 79.784 1.00 26.06	С
ATOM	12383 O GLY D 296	18.913 79.434 80.958 1.00 25.82	О
ATOM	12384 N ARG D 297	20.097 78.188 79.461 1.00 25.25	N
ATOM	12386 CA ARG D 297	20.495 77.161 80.443 1.00 24.86	C
ATOM	12388 CB ARG D 297	20.919 75.865 79.734 1.00 24.84	C
	12391 CG ARG D 297	20.364 74.576 80.346 1.00 24.74	С
	12394 CD ARG D 297	20.206 73.445 79.331 1.00 24.92	С
ATOM	12397 NE ARG D 297	21.310 73.414 78.361 1.00 24.99	N
		21.184 73.382 77.030 1.00 25.02	С
ATOM	12400 NH1 ARG D 297	19.992 73.368 76.439 1.00 25.26	N
ATOM	12403 NH2 ARG D 297	22.277 73.358 76.274 1.00 25.43	N
ATOM	12406 C ARG D 297	21.628 77.648 81.360 1.00 24.55	С
ATOM	12407 O ARG D 297	21.660 77.313 82.548 1.00 24.58	0
	12408 N GLU D 298	22.557 78.433 80.812 1.00 24.01	N
-	12410 CA GLU D 298	23.584 79.090 81.631 1.00 23.59	С
-	12412 CB GLU D 298	24.625 79.757 80.737 1.00 23.52	C
	12415 CG GLU D 298	25.440 78.774 79.907 1.00 23.01	С
	12418 CD GLU D 298	26.123 79.421 78.714 1.00 22.51	Č
	12419 OE1 GLU D 298	26.009 80.652 78.552 1.00 22.35	Ō
	12420 OE2 GLU D 298	26.781 78.698 77.936 1.00 21.54	Ŏ
	12421 C GLU D 298	22.934 80.134 82.551 1.00 23.51	C
	12422 O GLU D 298	23.381 80.375 83.704 1.00 23.44	Ö
	12423 N ASP D 299	21.862 80.740 82.036 1.00 23.15	Ň

ATOM	12425	CA ASP D 299	21.087 81.711 82.789 1.00 23.01	C
ATOM	12427	CB ASP D 299	20.078 82.417 81.860 1.00 22.83	C
ATOM	12430	CG ASP D 299	20.717 83.756 81.142 1.00 22.93	C
ATOM	12431	OD1 ASP D 299	21.119 84.501 82.342 1.00 24.43	Ο
ATOM	12432	OD2 ASP D 299	20.873 84.135 79.437 1.00 21.52	Ο
ATOM	12433	C ASP D 299	20.400 81.101 84.024 1.00 22.79	С
ATOM	12434	O ASP D 299	20.202 81.793 85.039 1.00 23.01	Ο
ATOM	12435	N GLN D 300	20.054 79.811 83.940 1.00 22.49	N
ATOM	12437	CA GLN D 300	19.496 79.076 85.083 1.00 22.30	C
ATOM	12439	CB GLN D 300	18.956 77.720 84.632 1.00 22.53	C
ATOM	12442	CG GLN D 300	17.777 77.794 83.684 1.00 22.81	C
ATOM	12445	CD GLN D 300	17.348 76.352 83.232 1.00 25.00	C
ATOM	12446	OE1 GLN D 300	16.161 76.074 82.932 1.00 27.61	О
ATOM	12447	NE2 GLN D 300	18.313 75.420 83.157 1.00 25.87	N
ATOM	12450	C GLN D 300	20.536 78.854 86.178 1.00 21.65	С
ATOM	12451	O GLN D 300	20.199 78.809 87.344 1.00 21.44	О
ATOM	12452	N ILE D 301	21.798 78.693 85.784 1.00 21.29	N
ATOM	12454	CA ILE D 301	22.893 78.486 86.741 1.00 20.83	C
ATOM	12456	CB ILE D 301	24.200 78.063 86.008 1.00 20.65	C
ATOM	12458	CG1 ILE D 301	23.997 76.768 85.199 1.00 20.83	С
ATOM	12461	CD1 ILE D 301	25.057 76.532 84.117 1.00 20.59	С
ATOM	12465	CG2 ILE D 301	25.344 77.879 87.008 1.00 20.52	C
ATOM	12469	C ILE D 301	23.169 79.726 87.656 1.00 20.35	C
ATOM	12470	O ILE D 301	23.414 79.554 88.840 1.00 19.89	О
ATOM	12471	N ALA D 302	23.153 80.954 87.093 1.00 20.19	N
ATOM	12473	CA ALA D 302	23.590 82.168 87.805 1.00 19.63	C
ATOM.	12475	CB ALA D 302	23.850 83.284 86.808 1.00 20.06	C
ATOM	12479	C ALA D 302	22.517 82.597 88.812 1.00 20.17	С
ATOM	12480	O ALA D 302	22.805 83.014 89.994 1.00 19.10	О
ATOM	12481	N LEU D 303	21.260 82.490 88.324 1.00 19.99	N
ATOM	12483	CA LEU D 303	20.130 82.780 89.160 1.00 19.26	С
ATOM	12485	CB LEU D 303	18.812 82.633 88.388 1.00 19.41	C
ATOM	12488	CG LEU D 303	18.558 83.676 87.275 1.00 19.77	C
ATOM	12490	CD1 LEU D 303	17.155 83.525 86.665 1.00 19.43	C
ATOM	12494	CD2 LEU D 303	18.770 85.100 87.802 1.00 19.37	C
ATOM	12498	C LEU D 303	20.165 81.826 90.334 1.00 19.62	C
ATOM	12499	O LEU D 303	19.912 82.255 91.474 1.00 19.24	Ο
ATOM	12500	N LEU D 304	20.491 80.549 90.088 1.00 19.36	N
ATOM	12502	CA LEU D 304	20.432 79.533 91.158 1.00 19.40	С
ATOM	12504	CB LEU D 304	20.355 78.109 90.596 1.00 19.64	С
ATOM	12507	CG LEU D 304	18.940 77.536 90.438 1.00 20.03	С
		CD1 LEU D 304	18.427 77.048 91.768 1.00 20.31	C
ATOM	12513	CD2 LEU D 304	17.963 78.561 89.857 1.00 20.21	С
ATOM	12517	C LEU D 304	21.592 79.660 92.121 1.00 19.18	С
ATOM	12518	O LEU D 304	21.411 79.508 93.320 1.00 19.22	0
ATOM	12519	N LYS D 305	22.771 79.978 91.601 1.00 19.09	N
			23.942 80.227 92.449 1.00 19.09	C
ATOM	12523	CB LYS D 305	25.210 80.469 91.609 1.00 19.03	С

ATOM	12526	CG LYS D 305	26.286 79.415 91.827 1.00 19.39	С
ATOM	12529	CD LYS D 305	27.371 79.478 90.774 1.00 19.76	С
ATOM	12532	CE LYS D 305	28.747 79.098 91.342 1.00 20.24	С
		NZ LYS D 305	29.539 78.242 90.389 1.00 18.52	N
		C LYS D 305	23.718 81.390 93.436 1.00 18.96	С
		O LYS D 305	24.157 81.307 94.579 1.00 18.44	Ō
		N ALA D 306	23.045 82.459 93.001 1.00 18.73	N
		CA ALA D 306	22.747 83.600 93.900 1.00 19.18	C
		CB ALA D 306	22.711 84.906 93.108 1.00 19.22	č
		C ALA D 306		c
		O ALA D 306		Ö
		N SER D 307		N
			19.182 82.506 94.776 1.00 17.97	Č
			18.174 82.212 93.667 1.00 17.87	C
			16.940 82.838 93.933 1.00 19.67	Ö
		C SER D 307		c
		O SER D 307		0
				N
		N THR D 308	19.637 79.138 96.530 1.00 15.86	C
			20.696 78.051 96.243 1.00 16.18	C
				O
		OG1 THR D 308		C
		CG2 THR D 308		_
		C THR D 308	19.590 79.414 98.026 1.00 15.93	С
		O THR D 308	18.659 78.989 98.700 1.00 16.03	O
		N ILE D 309	20.586 80.136 98.531 1.00 15.72	N
		CA ILE D 309		C
		CB ILE D 309		C
			22.150 81.320 101.835 1.00 16.29	C
		CD1 ILE D 309		C
		CG2 ILE D 309	22.080 82.580 99.689 1.00 15.04	C
		C ILE D 309	19.447 81.382 100.337 1.00 15.85	C
_		O ILE D 309	18.935 81.268 101.436 1.00 15.28	0
		N GLU D 310	19.000 82.252 99.445 1.00 16.15	N
		CA GLU D 310	17.871 83.116 99.775 1.00 16.39	C
		CB GLU D 310	17.709 84.213 98.740 1.00 16.24	C
		CG GLU D 310	18.863 85.197 98.770 1.00 16.79	C
		CD GLU D 310	18.715 86.298 97.733 1.00 19.76	С
		OE1 GLU D 310		О
		OE2 GLU D 310		О
		C GLU D 310	16.581 82.319 99.929 1.00 16.61	С
		O GLU D 310	15.795 82.597 100.825 1.00 16.54	Ο
		N ILE D 311	16.383 81.311 99.077 1.00 16.88	N
		CA ILE D 311	15.196 80.455 99.138 1.00 16.43	С
ATOM	12614	CB ILE D 311	15.024 79.642 97.822 1.00 16.32	С
		CG1 ILE D 311	14.906 80.573 96.617 1.00 17.54	С
		CD1 ILE D 311	15.328 79.946 95.329 1.00 18.82	С
ATOM	12623	CG2 ILE D 311	13.786 78.745 97.905 1.00 15.41	С
ATOM	12627	C ILE D 311	15.282 79.505 100.327 1.00 16.25	С

	14.278 79.180 100.937 1.00 16.16	0
	16.487 79.047 100.640 1.00 16.61	N
ATOM 12631 CA MET D 312	16.723 78.240 101.845 1.00 16.86	C
ATOM 12633 CB MET D 312	18.201 77.871 101.954 1.00 17.19	С
ATOM 12636 CG MET D 312		С
ATOM 12639 SD MET D 312	20.289 76.170 101.289 1.00 22.20	S
ATOM 12640 CE MET D 312	20.250 75.803 103.019 1.00 18.61	C
ATOM 12644 C MET D 312	16.317 79.033 103.068 1.00 16.07	C
ATOM 12645 O MET D 312	15.593 78.551 103.911 1.00 14.90	O
ATOM 12646 N LEU D 313	16.768 80.280 103.139 1.00 16.68	N
ATOM 12648 CA LEU D 313	16.365 81.180 104.223 1.00 17.04	C
ATOM 12650 CB LEU D 313	17.053 82.525 104.083 1.00 16.94	С
ATOM 12653 CG LEU D 313	18.547 82.513 104.400 1.00 17.76	С
ATOM 12655 CD1 LEU D 313		C
	18.804 82.280 105.860 1.00 19.95	С
ATOM 12663 C LEU D 313		C
	14.275 81.284 105.387 1.00 17.55	O
ATOM 12665 N LEU D 314	14.225 81.577 103.168 1.00 17.10	N
	12.757 81.688 103.099 1.00 17.60	C
	12.306 81.977 101.652 1.00 17.58	Č
	11.507 83.203 101.229 1.00 17.28	Č
ATOM 12674 CD1 LEU D 314		Č
ATOM 12678 CD2 LEU D 314		č
ATOM 12682 C LEU D 314		c
ATOM 12683 O LEU D 314		Ö
ATOM 12684 N GLU D 315		N
	11.977 77.967 103.648 1.00 19.85	C
	12.464 76.794 102.804 1.00 20.52	C
	11.828 76.749 101.427 1.00 24.01	C
ATOM 12694 CD GLU D 315		C
	10.126 75.141 101.884 1.00 29.90	
	9.490 77.112 101.095 1.00 32.59	0
ATOM 12696 OE2 GLU D 315		0
	12.244 77.696 105.119 1.00 18.94	C
ATOM 12698 O GLU D 315	11.438 77.062 105.804 1.00 18.93	O
ATOM 12699 N THR D 316	13.377 78.171 105.588 1.00 18.70	N
ATOM 12701 CA THR D 316	13.721 78.126 107.005 1.00 19.28	C
ATOM 12703 CB THR D 316	15.175 78.587 107.158 1.00 19.77	C
ATOM 12705 OG1 THR D 316		0
ATOM 12707 CG2 THR D 316		C
ATOM 12711 C THR D 316	12.750 78.964 107.855 1.00 19.13	C
ATOM 12712 O THR D 316	12.172 78.466 108.816 1.00 18.48	0
ATOM 12713 N ALA D 317	12.519 80.216 107.457 1.00 19.55	N
ATOM 12715 CA ALA D 317	11.505 81.056 108.120 1.00 19.26	C
ATOM 12717 CB ALA D 317	11.361 82.387 107.407 1.00 19.52	С
ATOM 12721 C ALA D 317	10.144 80.373 108.195 1.00 19.33	С
ATOM 12722 O ALA D 317	9.431 80.420 109.214 1.00 19.73	Ο
ATOM 12723 N ARG D 318	9.769 79.737 107.106 1.00 18.89	N
ATOM 12725 CA ARG D 318	8.474 79.086 107.014 1.00 18.75	С

ATOM	12727	CB ARG D 318	8.355 78.550 105.601 1.00 19.48	С
ATOM	12730	CG ARG D 318	7.035 78.003 105.174 1.00 21.64	С
ATOM	12733	CD ARG D 318	7.104 77.675 103.715 1.00 23.82	С
ATOM	12736	NE ARG D 318	5.902 77.083 103.171 1.00 26.12	N
ATOM	12738	CZ ARG D 318	5.640 77.042 101.869 1.00 29.28	С
		NHI ARG D 318	6.506 77.561 101.002 1.00 30.16	N
		NH2 ARG D 318	4.522 76.474 101.415 1.00 30.77	N
		C ARG D 318	8.358 77.954 108.039 1.00 18.09	C
		O ARG D 318	7.266 77.599 108.475 1.00 16.87	Ö
		N ARG D 319	9.507 77.404 108.429 1.00 17.86	N
		CA ARG D 319		C
		CB ARG D 319		С
		CG ARG D 319	10.297 74.581 107.673 1.00 19.65	C
		CD ARG D 319		C
		NE ARG D 319		N
		CZ ARG D 319		C
		NH1 ARG D 319		N
			10.221 72.434 103.915 1.00 28.11	N
		C ARG D 319	9.817 76.724 110.810 1.00 17.72	C
		O ARG D 319	9.992 75.879 111.699 1.00 17.32	0
		N TYR D 320	9.826 78.033 111.018 1.00 17.56	Ň
			10.042 78.645 112.320 1.00 17.83	C
		CB TYR D 320		Č
		CG TYR D 320		C
			11.774 80.365 114.439 1.00 15.63	C
		CE1 TYR D 320	11.861 80.966 115.671 1.00 15.30	č
		CZ TYR D 320	10.978 81.978 116.006 1.00 16.00	c
		OH TYR D 320	11.058 82.594 117.233 1.00 14.76	o
			9.993 82.375 115.115 1.00 17.33	Č
		CD2 TYR D 320	9.903 81.760 113.884 1.00 17.19	Č
		C TYR D 320	8.709 78.737 113.041 1.00 17.54	C
		O TYR D 320		Ö
		N ASN D 321	8.672 78.219 114.244 1.00 17.45	N
			7.494 78.300 115.089 1.00 17.31	C
			7.158 76.904 115.569 1.00 17.19	Č
			6.001 76.875 116.523 1.00 16.67	Č
		OD1 ASN D 321	5.298 77.873 116.718 1.00 15.79	Ö
		ND2 ASN D 321	5.789 75.719 117.120 1.00 13.63	N
		C ASN D 321	7.801 79.192 116.276 1.00 17.26	C.
		O ASN D 321	8.603 78.820 117.103 1.00 16.90	Ö
		N HIS D 322	7.166 80.359 116.364 1.00 18.26	N
		CA HIS D 322	7.507 81.321 117.422 1.00 18.58	C
		CB HIS D 322	6.952 82.690 117.149 1.00 18.38	Č
-		CG HIS D 322	7.573 83.736 118.016 1.00 18.54	Č
		ND1 HIS D 322	8.931 83.944 118.042 1.00 14.77	N
		CE1 HIS D 322	9.203 84.920 118.890 1.00 19.42	C
		NE2 HIS D 322	8.078 85.310 119.460 1.00 19.88	N
		CD2 HIS D 322	7.039 84.585 118.927 1.00 18.75	C
			0	~

ATOM	12822	C HIS D 322	7.079 80.954 118.828 1.00 19.14	C
ATOM	12823	O HIS D 322	7.558 81.530 119.809 1.00 19.70	O
ATOM	12824	N GLU D 323	6.177 79.993 118.917 1.00 19.44	N
ATOM	12826	CA GLU D 323	5.685 79.515 120.184 1.00 19.41	C
ATOM	12828	CB GLU D 323	4.369 78.785 119.928 1.00 19.69	С
ATOM	12831	CG GLU D 323	3.844 77.968 121.091 1.00 23.22	C
ATOM	12834	CD GLU D 323	2.563 77.236 120.744 1.00 27.15	C
ATOM	12835	OE1 GLU D 323	2.139 77.295 119.548 1.00 27.89	O
ATOM	12836	OE2 GLU D 323	1.996 76.598 121.673 1.00 30.38	O
ATOM	12837	C GLU D 323	6.752 78.637 120.882 1.00 18.75	С
ATOM	12838	O GLU D 323	6.805 78.581 122.096 1.00 18.35	0
		N THR D 324	7.590 77.956 120.106 1.00 18.60	N
		CA THR D 324	8.732 77.183 120.635 1.00 17.91	С
		CB THR D 324	8.750 75.802 119.996 1.00 17.80	С
		OG1 THR D 324	8.911 75.915 118.574 1.00 17.11	О
_		CG2 THR D 324		C
		C THR D 324	10.097 77.870 120.380 1.00 17.80	С
		O THR D 324	11.111 77.479 120.948 1.00 17.48	Ο
		N GLU D 325	10.090 78.914 119.555 1.00 17.57	N
		CA GLUD 325	11.300 79.501 118.966 1.00 17.83	С
		CB GLU D 325	12.027 80.386 119.981 1.00 17.92	С
		CG GLU D 325	11.079 81.131 120.904 1.00 18.28	C
		CD GLU D 325	11.738 82.251 121.674 1.00 19.69	C
		OE1 GLU D 325	12.984 82.272 121.804 1.00 20.99	O
ATOM	12865	OE2 GLU D 325	10.994 83.139 122.121 1.00 21.52	O
ATOM	12866	C GLU D 325	12.240 78.474 118.319 1.00 18.09	С
ATOM	12867	O GLU D 325	13.469 78.631 118.335 1.00 18.16	O
ATOM	12868	N CYS D 326	11.647 77.437 117.720 1.00 18.28	N
ATOM	12870	CA CYS D 326	12.401 76.410 117.007 1.00 17.91	C
ATOM	12872	CB CYS D 326	12.150 75.051 117.624 1.00 17.92	C
ATOM	12875	SG CYS D 326	12.649 74.925 119.344 1.00 18.22	S
ATOM	12876	C CYS D 326	12.054 76.338 115.519 1.00 17.96	С
		O CYS D 326	10.944 76.665 115.101 1.00 18.19	Ο
ATOM	12878	N ILE D 327	13.034 75.888 114.742 1.00 17.75	N
ATOM	12880	CA ILE D 327	12.900 75.613 113.323 1.00 17.34	С
ATOM	12882	CB ILE D 327	14.136 76.136 112.612 1.00 17.02	С
ATOM	12884	CG1 ILE D 327	14.286 77.628 112.899 1.00 17.08	С
ATOM	12887	CD1 ILE D 327	15.587 78.220 112.465 1.00 17.70	С
ATOM	12891	CG2 ILE D 327	14.025 75.866 111.136 1.00 17.70	С
ATOM	12895	C ILE D 327	12.763 74.097 113.070 1.00 17.29	С
ATOM	12896	O ILE D 327	13.614 73.329 113.483 1.00 17.13	O
		N THR D 328	11.699 73.675 112.392 1.00 16.97	N
ATOM	12899	CA THR D 328	11.520 72.276 112.073 1.00 17.07	C
		CB THR D 328	10.077 71.848 112.382 1.00 17.04	C
		OG1 THR D 328	9.910 71.755 113.810 1.00 18.69	0
		CG2 THR D 328		C
ATOM	12909	C THR D 328	11.915 71.941 110.625 1.00 17.06	C
ATOM	12910	O THR D 328	11.235 72.336 109.689 1.00 16.34	Ο

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ATOM 12911 N PHE D 32	29 13.025 71.215 110.464 1.00 16.80	N
ATOM 12913 CA PHE D 3		C
ATOM 12915 CB PHE D 3		C
ATOM 12918 CG PHE D 3		С
ATOM 12919 CD1 PHE D		C
ATOM 12921 CEI PHE D	329 17.153 73.366 110.407 1.00 17.18	С
ATOM 12923 CZ PHE D 3	329 16.793 74.444 109.601 1.00 16.19	С
ATOM 12925 CE2 PHE D	329 15.846 74.276 108.617 1.00 16.57	C
ATOM 12927 CD2 PHE D	329 15.250 73.029 108.437 1.00 17.38	C
ATOM 12929 C PHE D 33		С
ATOM 12930 O PHE D 3		О
ATOM 12931 N LEU D 3	30 12.446 68.891 107.758 1.00 17.66	N
ATOM 12933 CA LEUD		C
ATOM 12935 CB LEUD:		C
ATOM 12938 CG LEU D		С
ATOM 12940 CD1 LEU D		C
ATOM 12944 CD2 LEU D	330 14.125 67.091 105.588 1.00 21.19	C
ATOM 12948 C LEU D 3	30 10.506 67.396 108.233 1.00 19.73	C
ATOM 12949 O LEU D 3		О
ATOM 12950 N LYS D 3		N
ATOM 12952 CA LYS D		C
ATOM 12954 CB LYS D		C
ATOM 12957 CG LYS D	331 7.361 64.127 110.081 1.00 22.45	C
ATOM 12960 CD LYS D	7.120 62.615 110.109 1.00 23.00	\mathbf{C}
ATOM 12963 CE LYSD:	5.755 62.248 110.728 1.00 23.00	C
ATOM 12966 NZ LYS D		N
ATOM 12970 C LYS D 3		С
ATOM 12971 O LYS D 3		О
ATOM 12972 N ASP D 3		N
ATOM 12974 CA ASP D		C
ATOM 12976 CB ASP D 3		C
ATOM 12979 CG ASP D		C
ATOM 12980 OD1 ASP D		O
ATOM 12981 OD2 ASP D		О
ATOM 12982 C ASP D 3		C
ATOM 12983 O ASP D 3		О
ATOM 12984 N PHE D 3		N
ATOM 12986 CA PHE D		С
ATOM 12988 CB PHE D		C
ATOM 12991 CG PHE D		C
ATOM 12992 CD1 PHE D		C
ATOM 12994 CE1 PHE D		C
ATOM 12996 CZ PHE D		C
ATOM 12998 CE2 PHE D		C
ATOM 13000 CD2 PHE D		C
ATOM 13002 C PHE D 3		C
ATOM 13003 O PHE D 3		0
ATOM 13004 N THR D 3	13.746 69.264 114.966 1.00 21.52	N

ATON 12006	CA TIID D 224	12 254 70 566 115 522 1 00 21 15	С
		13.354 70.566 115.523 1.00 21.15	C
		12.076 70.373 116.346 1.00 21.06	
		11.013 70.024 115.458 1.00 22.39	0
		11.601 71.667 117.000 1.00 20.50	C
	C THR D 334	14.473 71.119 116.391 1.00 20.64	C
	O THR D 334	14.993 70.410 117.256 1.00 21.61	0
	N TYR D 335		N
		16.045 72.956 116.709 1.00 18.85	C
		17.151 72.911 115.633 1.00 18.58	C
		17.442 71.498 115.222 1.00 19.49	C
		17.247 71.067 113.926 1.00 18.92	C
		17.492 69.744 113.583 1.00 20.64	C
ATOM 13030	CZ TYR D 335	17.918 68.850 114.547 1.00 18.93	С
ATOM 13031	OH TYR D 335	18.156 67.535 114.226 1.00 22.78	Ο
ATOM 13033	CE2 TYR D 335	18.106 69.255 115.831 1.00 19.01	C
ATOM 13035	CD2 TYR D 335	17.863 70.559 116.173 1.00 20.56	C
ATOM 13037	C TYR D 335	15.864 74.383 117.184 1.00 17.90	C
		15.299 75.200 116.469 1.00 17.11	O
		16.361 74.656 118.388 1.00 17.04	N
		16.422 76.008 118.966 1.00 16.74	С
		16.370 75.896 120.488 1.00 16.83	С
		17.539 75.217 120.966 1.00 15.76	O
		17.738 76.715 118.596 1.00 16.17	C
		18.640 76.105 118.069 1.00 14.89	Ō
		17.841 78.005 118.892 1.00 16.72	N
		19.128 78.708 118.826 1.00 17.06	C
	CB LYS D 337		Č
	CG LYS D 337		C
		18.930 82.497 119.394 1.00 14.66	Č
		18.332 83.573 118.544 1.00 15.20	C
		18.517 84.917 119.049 1.00 10.93	N
			C
	C LYS D 337	21.382 77.794 118.903 1.00 17.72	0
= -	N ASP D 338	19.980 77.245 120.567 1.00 18.12 21.020 76.548 121.270 1.00 18.82	N
	CA ASP D 338		C
	CB ASP D 338	20.553 76.052 122.634 1.00 19.01	C
	CG ASP D 338	21.628 76.157 123.630 1.00 20.94	C
	OD1 ASP D 338	22.111 75.106 124.095 1.00 22.65	0
	OD2 ASP D 338	22.092 77.274 123.956 1.00 24.02	0
ATOM 13082		21.599 75.405 120.463 1.00 18.23	C
	O ASP D 338	22.796 75.212 120.476 1.00 18.26	0
_	N ASP D 339	20.757 74.662 119.756 1.00 18.03	N
=	CA ASP D 339	21.239 73.572 118.897 1.00 17.64	C ·
	CB ASP D 339	20.076 72.795 118.327 1.00 17.74	C
	CG ASP D 339	19.237 72.203 119.390 1.00 19.52	C
=	OD1 ASP D 339	19.816 71.651 120.345 1.00 21.13	О
	OD2 ASP D 339		O
ATOM 13094	C ASP D 339	22.117 74.056 117.758 1.00 16.92	C

ATOM 130	95 O ASP D 339 23.059 73.373 117.360 1.00 15.53	0
ATOM 130	96 N PHE D 340 21.819 75.233 117.222 1.00 16.37	N
ATOM 130	98 CA PHE D 340 22.664 75.743 116.153 1.00 16.21	С
ATOM 131	00 CB PHE D 340 21.995 76.888 115.419 1.00 15.86	C
ATOM 131	03 CG PHE D 340 20.819 76.452 114.618 1.00 15.58	С
ATOM 131	04 CD1 PHE D 340 19.536 76.601 115.103 1.00 14.28	С
	06 CE1 PHE D 340 18.447 76.189 114.357 1.00 13.86	С
	08 CZ PHE D 340 18.628 75.599 113.142 1.00 13.49	C
	10 CE2 PHE D 340 19.894 75.423 112.650 1.00 14.38	C
ATOM 131	12 CD2 PHE D 340 20.992 75.846 113.389 1.00 15.91	С
ATOM 131	14 C PHE D 340 24.045 76.109 116.658 1.00 16.12	С
	15 O PHE D 340 25.034 75.841 115.995 1.00 16.50	0
	16 N HIS D 341 24.111 76.712 117.834 1.00 16.63	N
	18 CA HIS D 341 25.386 77.143 118.384 1.00 16.82	С
	20 CB HIS D 341 25.219 78.056 119.599 1.00 17.15	С
	23 CG HIS D 341 26.480 78.792 119.946 1.00 19.44	С
	24 ND1 HIS D 341 27.128 79.614 119.047 1.00 21.11	N
	26 CE1 HIS D 341 28.218 80.105 119.611 1.00 22.20	С
	28 NE2 HIS D 341 28.307 79.626 120.839 1.00 21.65	N
	30 CD2 HIS D 341 27.240 78.790 121.068 1.00 21.17	С
	32 C HIS D 341 26.231 75.949 118.753 1.00 16.10	C
	33 O HIS D 341 27.440 75.986 118.597 1.00 15.56	0
	34 N ARG D 342 25.571 74.886 119.205 1.00 15.87	N
	36 CA ARG D 342 26.224 73.620 119.568 1.00 16.07	С
	38 CB ARG D 342 25.207 72.687 120.229 1.00 16.05	C
	41 CG ARG D 342 24.788 73.102 121.623 1.00 17.32	С
	44 CD ARG D 342 24.621 71.926 122.539 1.00 21.25	C
	47 NE ARG D 342 23.364 71.878 123.275 1.00 23.52	N
	49 CZ ARG D 342 23.038 70.870 124.098 1.00 25.50	С
	50 NH1 ARG D 342 23.869 69.835 124.275 1.00 24.03	N
	53 NH2 ARG D 342 21.877 70.897 124.752 1.00 26.29	N
	56 C ARG D 342 26.868 72.879 118.378 1.00 15.73	С
	57 O ARG D 342 27.777 72.055 118.571 1.00 15.89	Ō
	58 N ALA D 343 26.367 73.143 117.170 1.00 15.13	N
	60 CA ALA D 343 26.960 72.634 115.929 1.00 15.14	C
	62 CB ALA D 343 25.902 72.529 114.834 1.00 15.08	Ċ
	66 C ALA D 343 28.113 73.519 115.449 1.00 14.86	C
	67 O ALA D 343 28.660 73.303 114.386 1.00 14.33	Ō
ATOM 131		N
	70 CA GLY D 344 29.626 75.336 115.959 1.00 15.39	C
	73 C GLY D 344 29.379 76.548 115.109 1.00 15.41	C
ATOM 131		Ö
	75 N LEU D 345 28.127 76.801 114.763 1.00 15.74	N
	77 CA LEU D 345 27.800 77.972 113.955 1.00 16.56	C
	79 CB LEU D 345 26.405 77.838 113.337 1.00 16.66	Č
	82 CG LEU D 345 26.208 76.577 112.502 1.00 17.17	Č
	84 CD1 LEU D 345 24.875 76.607 111.832 1.00 17.49	C
	88 CD2 LEU D 345 27.314 76.427 111.457 1.00 19.65	Č
		_

ATOM	13192	C LEU D 345	27.912 79.257 114.784 1.00 16.89	C
ATOM	13193	O LEU D 345	27.621 79.268 115.996 1.00 17.01	Ο
ATOM	13194	N GLN D 346	28.342 80.327 114.116 1.00 17.06	N
ATOM	13196	CA GLN D 346	28.632 81.607 114.760 1.00 17.19	С
ATOM	13198	CB GLN D 346	29.423 82.522 113.814 1.00 17.60	C
ATOM	13201	CG GLN D 346	30.644 81.878 113.171 1.00 18.33	С
ATOM	13204	CD GLN D 346	31.568 81.261 114.198 1.00 20.92	С
ATOM	13205	OE1 GLN D 346	32.017 81.946 115.117 1.00 21.20	O
		NE2 GLN D 346		N
ATOM	13209	C GLN D 346	27.338 82.297 115.154 1.00 17.01	С
		O GLN D 346	26.332 82.137 114.474 1.00 16.46	O
		N VAL D 347		N
		CA VAL D 347	26.223 83.862 116.681 1.00 17.24	С
		CB VAL D 347	26.372 84.370 118.164 1.00 17.60	С
			25.872 85.805 118.358 1.00 17.35	C
		CG2 VAL D 347		C
		C VAL D 347	25.925 84.985 115.680 1.00 16.88	C
		O VAL D 347		Ō
		N GLU D 348	26.960 85.555 115.073 1.00 17.02	Ň
		CA GLU D 348	26.776 86.529 113.980 1.00 17.07	C
		CB GLU D 348	28.140 86.949 113.415 1.00 17.09	Č
		CG GLU D 348	28.975 87.801 114.359 1.00 16.95	Č
		CD GLU D 348	29.917 87.001 115.260 1.00 17.25	Č
		OE1 GLU D 348		Ō
		OE2 GLU D 348		ŏ
		C GLU D 348	25.890 86.012 112.820 1.00 17.19	C
		O GLU D 348	25.370 86.800 112.015 1.00 17.00	Ö
		N PHE D 349	25.754 84.686 112.733 1.00 17.57	N
		CA PHE D 349		C
		CB PHE D 349	25.837 82.795 111.226 1.00 18.32	Č
		CG PHE D 349	25.294 82.031 110.029 1.00 22.06	C
		CD1 PHE D 349		C
		CE1 PHE D 349	24.319 81.950 107.818 1.00 24.67	c
			24.425 80.574 107.808 1.00 25.29	C
			24.965 79.911 108.899 1.00 25.21	C
		CD2 PHE D 349	25.409 80.632 109.989 1.00 24.56	C
		C PHE D 349	23.657 83.539 112.268 1.00 16.59	c
		O PHE D 349	22.601 83.689 111.625 1.00 17.28	Ö
		N ILE D 350	23.667 83.033 113.504 1.00 14.79	N
		CA ILE D 350	22.426 82.522 114.080 1.00 13.52	C
		CB ILE D 350	22.703 81.689 115.349 1.00 13.14	C
		CG1 ILE D 350	23.477 80.427 115.004 1.00 12.85	C
		CD1 ILE D 350	24.246 79.916 116.203 1.00 12.77	C
		CG2 ILE D 350	21.415 81.277 116.076 1.00 11.63	C
		C ILE D 350	21.430 83.662 114.365 1.00 13.33	С
		O ILE D 350	20.234 83.535 114.069 1.00 12.57	0
			21.905 84.757 114.959 1.00 12.77	N
			20.970 85.791 115.419 1.00 12.60	C
A I OIM	17203	CU URIA D 331	20.570 05.731 115.413 1.00 12.00	C

ATOM 13285 CB ASN D 351	21.639 86.826 116.351 1.00 11.66	С
ATOM 13288 CG ASN D 35		С
ATOM 13289 OD1 ASN D 35	1 21.364 85.223 118.101 1.00 11.58	О
ATOM 13290 ND2 ASN D 35		N
ATOM 13293 C ASN D 351	20.175 86.415 114.272 1.00 12.17	C
ATOM 13294 O ASN D 351	18.971 86.361 114.321 1.00 12.15	О
ATOM 13295 N PRO D 352	20.811 86.935 113.223 1.00 12.68	N
ATOM 13296 CA PRO D 352		C
ATOM 13298 CB PRO D 352		C
ATOM 13301 CG PRO D 352	2 22.367 88.225 112.029 1.00 12.50	C
ATOM 13304 CD PRO D 352		С
ATOM 13307 C PRO D 352	19.036 86.580 111.399 1.00 13.07	C
ATOM 13308 O PRO D 352	18.056 87.078 110.891 1.00 13.51	O
ATOM 13309 N ILE D 353	19.271 85.273 111.360 1.00 14.77	N
ATOM 13311 CA ILE D 353	18.375 84.337 110.666 1.00 15.44	C
ATOM 13313 CB ILE D 353	19.061 83.008 110.399 1.00 15.39	C
ATOM 13315 CG1 ILE D 353	20.047 83.132 109.239 1.00 17.58	С
ATOM 13318 CD1 ILE D 353	20.850 81.852 108.991 1.00 18.21	С
ATOM 13322 CG2 ILE D 353	18.073 81.938 110.012 1.00 16.28	C
ATOM 13326 C ILE D 353		С
ATOM 13327 O ILE D 353	16.029 84.022 110.985 1.00 16.70	О
ATOM 13328 N PHE D 354	17.338 84.049 112.824 1.00 16.01	N
ATOM 13330 CA PHE D 354	16.226 83.954 113.731 1.00 16.18	C
ATOM 13332 CB PHE D 354	16.669 83.566 115.167 1.00 16.26	C
ATOM 13335 CG PHE D 354	16.669 82.083 115.390 1.00 14.24	С
ATOM 13336 CD1 PHE D 35	4 17.727 81.308 114.940 1.00 13.74	C
ATOM 13338 CE1 PHE D 354	4 17.726 79.933 115.104 1.00 14.59	C
ATOM 13340 CZ PHE D 354	16.637 79.313 115.725 1.00 15.36	С
ATOM 13342 CE2 PHE D 354	4 15.558 80.077 116.155 1.00 13.49	C
ATOM 13344 CD2 PHE D 35	4 15.575 81.459 115.969 1.00 14.41	С
ATOM 13346 C PHE D 354	15.374 85.207 113.695 1.00 16.36	C
ATOM 13347 O PHE D 354	14.169 85.085 113.682 1.00 16.51	Ο
ATOM 13348 N GLU D 355	15.947 86.398 113.631 1.00 17.38	N
ATOM 13350 CA GLU D 35	5 15.079 87.570 113.629 1.00 18.65	C
ATOM 13352 CB GLU D 353	5 15.769 88.844 114.123 1.00 20.16	C
ATOM 13355 CG GLU D 35	5 16.542 89.686 113.143 1.00 23.24	C
ATOM 13358 CD GLU D 35	5 17.096 90.915 113.836 1.00 27.30	C
ATOM 13359 OE1 GLU D 35	5 18.059 90.773 114.611 1.00 32.29	О
ATOM 13360 OE2 GLU D 35	5 16.566 92.016 113.640 1.00 31.79	О
ATOM 13361 C GLU D 355	14.411 87.773 112.301 1.00 18.02	С
ATOM 13362 O GLU D 355	13.314 88.305 112.252 1.00 17.33	Ο
ATOM 13363 N PHE D 356	15.048 87.310 111.224 1.00 18.12	N
ATOM 13365 CA PHE D 356		C
ATOM 13367 CB PHE D 356	5 15.316 86.833 108.843 1.00 18.10	C
ATOM 13370 CG PHE D 356		С
ATOM 13371 CD1 PHE D 35		С
ATOM 13373 CE1 PHE D 35		С
ATOM 13375 CZ PHE D 356	5 13.439 86.342 105.003 1.00 17.86	С

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ATOM 133	77 CE2 PHE D 356	13.683 85.238 105.803 1.00 20.18	C
ATOM 133	79 CD2 PHE D 356	14.280 85.399 107.055 1.00 19.82	C
ATOM 133	81 C PHE D 356	13.177 86.371 110.011 1.00 17.21	С
ATOM 133	82 O PHE D 356	12.080 86.744 109.577 1.00 16.56	Ο
ATOM 133	83 N SER D 357	13.374 85.197 110.614 1.00 16.08	N
ATOM 133	85 CA SER D 357	12.318 84.231 110.733 1.00 16.00	С
ATOM 133	87 CB SER D 357	12.863 82.921 111.322 1.00 16.71	C
ATOM 133	90 OG SER D 357	13.823 82.288 110.449 1.00 14.50	Ο
ATOM 133	92 C SER D 357	11.159 84.782 111.564 1.00 16.84	С
ATOM 133	93 O SER D 357	9.994 84.544 111.260 1.00 16.43	О
ATOM 133	94 N ARG D 358	11.473 85.568 112.596 1.00 16.89	N
ATOM 133	96 CA ARG D 358	10.436 86.112 113.474 1.00 16.31	C
ATOM 133	98 CB ARG D 358	11.060 86.830 114.662 1.00 16.33	С
ATOM 134	01 CG ARG D 358	11.152 86.056 115.934 1.00 17.48	С
ATOM 134	04 CD ARG D 358	11.729 86.912 117.052 1.00 20.26	C
ATOM 134	07 NE ARG D 358	13.018 86.354 117.301 1.00 25.96	N
ATOM 134	09 CZ ARG D 358	14.194 86.947 117.218 1.00 22.65	C
ATOM 134	10 NH1 ARG D 358	14.354 88.238 116.956 1.00 19.07	N
ATOM 134	13 NH2 ARG D 358	15.242 86.175 117.439 1.00 22.42	N
ATOM 134	16 C ARG D 358	9.598 87.118 112.705 1.00 16.20	C
ATOM 134	17 O ARG D 358	8.374 87.170 112.844 1.00 15.37	О
ATOM 134	18 N ALA D 359	10.269 87.947 111.920 1.00 16.45	N
ATOM 134	20 CA ALA D 359	9.580 88.987 111.148 1.00 17.28	C
ATOM 134	22 CB ALA D 359	10.582 89.941 110.512 1.00 17.05	C
ATOM 134	26 C ALA D 359	8.690 88.361 110.087 1.00 17.53	C
ATOM 134	27 O ALA D 359	7.560 88.798 109.876 1.00 17.97	O
ATOM 134	28 N MET D 360	9.199 87.316 109.449 1.00 18.83	N
ATOM 134	30 CA MET D 360	8.457 86.585 108.422 1.00 19.27	C
ATOM 134	32 CB MET D 360	9.323 85.473 107.835 1.00 18.85	C
ATOM 134	35 CG MET D 360	10.382 85.957 106.843 1.00 18.94	C
ATOM 134	38 SD MET D 360	9.743 86.806 105.396 1.00 21.35	S
	39 CE MET D 360	8.502 85.627 104.774 1.00 21.00	С
ATOM 134	43 C MET D 360	7.170 86.016 109.002 1.00 20.13	С
ATOM 134	44 O MET D 360	6.100 86.129 108.400 1.00 18.70	О
	45 N ARG D 361	7.290 85.447 110.201 1.00 21.90	N
	47 CA ARG D 361	6.174 84.834 110.907 1.00 23.42	С
	49 CB ARG D 361	6.665 84.197 112.191 1.00 24.79	C
	52 CG ARG D 361	5.692 83.203 112.775 1.00 28.89	C
	55 CD ARG D 361	5.643 81.963 111.923 1.00 34.68	С
	58 NE ARG D 361	4.583 81.042 112.295 1.00 38.61	N
	60 CZ ARG D 361	4.120 80.118 111.473 1.00 42.14	С
-	61 NH1 ARG D 361		N
	64 NH2 ARG D 361		N
-	67 C ARG D 361	5.104 85.821 111.286 1.00 23.42	C
-	68 O ARG D 361	3.925 85.477 111.342 1.00 24.04	0
-	69 N ARG D 362	5.513 87.049 111.563 1.00 23.68	N
	71 CA ARG D 362	4.559 88.113 111.885 1.00 24.21	C
ATOM 134	73 CB ARG D 362	5.279 89.325 112.489 1.00 24.12	С

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ATOM	13476 CG ARG D 362	5.563 89.158 113.981 1.00 25.37	C
ATOM	13479 CD ARG D 362	6.124 90.408 114.669 1.00 26.49	C
ATOM	13482 NE ARG D 362	7.586 90.354 114.718 1.00 30.15	N
ATOM	13484 CZ ARG D 362	8.404 91.159 114.060 1.00 31.30	C
ATOM	13485 NH1 ARG D 362	7.928 92.133 113.290 1.00 35.68	N
ATOM	13488 NH2 ARG D 362	9.710 90.997 114.171 1.00 29.73	N
	13491 C ARG D 362	3.746 88.544 110.672 1.00 24.10	C
ATOM	13492 O ARG D 362	2.708 89.182 110.819 1.00 24.95	O
ATOM	13493 N LEU D 363	4.223 88.234 109.473 1.00 24.23	N
ATOM	13495 CA LEU D 363	3.463 88.535 108.258 1.00 24.15	C
ATOM	13497 CB LEU D 363	4.364 88.621 107.041 1.00 24.08	C
	13500 CG LEU D 363	5.141 89.911 106.879 1.00 24.30	C
	13502 CD1 LEU D 363	6.031 89.758 105.676 1.00 25.29	С
ATOM	13506 CD2 LEU D 363	4.207 91.108 106.715 1.00 24.59	C
	13510 C LEU D 363	2.373 87.517 107.999 1.00 23.86	C
ATOM	13511 O LEU D 363	1.339 87.850 107.438 1.00 23.41	Ο
	13512 N GLY D 364	2.617 86.281 108.413 1.00 24.24	N
ATOM	13514 CA GLY D 364	1.635 85.214 108.287 1.00 24.01	\mathbf{C}
ATOM	13517 C GLY D 364	1.352 84.865 106.846 1.00 23.85	С
ATOM	13518 O GLY D 364	0.206 84.788 106.464 1.00 24.01	O
ATOM	13519 N LEU D 365	2.392 84.664 106.046 1.00 24.07	N
ATOM	13521 CA LEU D 365	2.221 84.279 104.650 1.00 24.58	C
ATOM	13523 CB LEU D 365	3.551 84.294 103.909 1.00 24.35	C
ATOM	13526 CG LEU D 365	4.442 85.522 103.945 1.00 25.06	C
ATOM	13528 CD1 LEU D 365	5.344 85.532 102.705 1.00 25.33	C
ATOM	13532 CD2 LEU D 365	3.626 86.776 104.042 1.00 26.01	C
ATOM	13536 C LEU D 365	1.638 82.874 104.514 1.00 24.93	C
ATOM	13537 O LEU D 365	2.138 81.940 105.150 1.00 25.34	O
ATOM	13538 N ASP D 366	0.607 82.718 103.681 1.00 25.11	N
ATOM	13540 CA ASP D 366	0.110 81.372 103.345 1.00 25.42	C
ATOM	13542 CB ASP D 366	-1.384 81.354 102.926 1.00 24.99	C
ATOM	13545 CG ASP D 366	-1.745 82.380 101.854 1.00 25.12	C
ATOM	13546 OD1 ASP D 366	-0.865 82.799 101.070 1.00 24.72	O
	13547 OD2 ASP D 366	-2.922 82.802 101.710 1.00 23.98	O
ATOM	13548 C ASP D 366	1.046 80.691 102.330 1.00 25.60	C
ATOM	13549 O ASP D 366	2.121 81.211 102.031 1.00 25.84	Ο
ATOM	13550 N ASP D 367	0.670 79.517 101.838 1.00 25.74	N
ATOM	13552 CA ASP D 367	1.551 78.763 100.945 1.00 25.71	С
	13554 CB ASP D 367	0.983 77.363 100.678 1.00 25.96	C
	13557 CG ASP D 367	0.888 76.510 101.927 1.00 25.99	C
	13558 OD1 ASP D 367	1.788 76.575 102.787 1.00 25.17	О
	13559 OD2 ASP D 367	-0.069 75.733 102.118 1.00 27.86	О
	13560 C ASP D 367	1.730 79.477 99.605 1.00 25.15	C
	13561 O ASP D 367	2.827 79.503 99.038 1.00 25.46	0
	13562 N ALA D 368	0.641 80.040 99.099 1.00 24.22	N
_	13564 CA ALA D 368	0.673 80.766 97.833 1.00 23.64	C
	13566 CB ALA D 368	-0.708 81.318 97.506 1.00 23.61	C
ATOM	13570 C ALA D 368	1.681 81.902 97.872 1.00 23.10	С

ATOM	13571	O ALA D 368	2.428 82.111 96.905 1.00 23.25	0
		N GLU D 369		N
		CA GLU D 369	2.511 83.816 99.117 1.00 21.31	C
		CB GLU D 369		C
		CG GLU D 369	0.813 85.424 100.102 1.00 20.90	C
		CD GLU D 369	0.153 86.072 101.321 1.00 19.79	C
		OE1 GLU D 369		0
		OE2 GLU D 369	0.144 85.494 102.423 1.00 17.91	o
		C GLU D 369	3.975 83.418 99.081 1.00 20.93	С
		O GLU D 369		Ö
		N TYR D 370		N
			5.727 81.892 99.878 1.00 21.12	C
		an arin n 450	5.896 80.742 100.896 1.00 21.08	C
			6.216 81.184 102.311 1.00 21.99	C
			5.260 81.100 103.337 1.00 23.12	C
		CE1 TYR D 370		C
		CZ TYR D 370		c
			7.112 82.479 106.263 1.00 25.50	O
		CE2 TYR D 370	7.774 82.153 103.950 1.00 21.94	C
		CD2 TYR D 370	7.475 81.716 102.636 1.00 23.21	C
		C TYR D 370	6.166 81.444 98.474 1.00 21.05	С
		O TYR D 370		ŏ
		N ALA D 371		N
		CA ALA D 371	5.563 80.263 96.418 1.00 20.62	C
			4.501 79.315 96.045 1.00 20.58	C
		C ALA D 371		C
		O ALA D 371	6.556 81.153 94.317 1.00 20.25	Ö
		N LEU D 372	5.015 82.418 95.477 1.00 20.23	N
			5.093 83.563 94.584 1.00 19.99	C
		CB LEU D 372	3.827 84.413 94.692 1.00 19.96	C
		CG LEU D 372		C
			1.315 84.479 94.375 1.00 19.70	C
		CD1 LEU D 372		C
			6.315 84.416 94.907 1.00 20.05	c
		O LEU D 372	6.963 84.920 93.985 1.00 20.44	0
		N LEU D 373		N
			7.800 85.302 96.648 1.00 19.31	C
		CB LEU D 373	7.872 85.398 98.207 1.00 19.24	C
		CG LEU D 373	8.021 86.779 98.837 1.00 19.46	C
		CD1 LEU D 373	8.081 86.667 100.355 1.00 19.71	
		CD1 LEU D 373	9.262 87.425 98.331 1.00 20.42	C C
		C LEU D 373	9.262 87.423 98.331 1.00 20.42 9.037 84.596 96.091 1.00 18.74	
				C
		O LEU D 373 N ILE D 374	9.922 85.223 95.513 1.00 18.49 9.100 83.288 96.312 1.00 18.29	O N
		CA ILE D 374		
			10.227 82.472 95.827 1.00 18.22	C
		CB ILE D 374	9.999 80.978 96.162 1.00 18.42	C
			10.242 80.730 97.656 1.00 19.63	C
AIUM	13003	CD1 ILE D 374	9.598 79.469 98.203 1.00 20.49	С

ATOM	13669	CG2 ILE D 374	10.940 80.076 95.338 1.00 18.65	С
			10.417 82.671 94.315 1.00 17.54	С
ATOM	13674	O ILE D 374	11.536 82.863 93.848 1.00 16.73	O
ATOM	13675	N ALA D 375	9.313 82.672 93.568 1.00 17.01	N
ATOM	13677	CA ALA D 375	9.393 82.871 92.125 1.00 16.61	С
ATOM	13679	CB ALA D 375	8.028 82.672 91.468 1.00 16.59	С
ATOM	13683	C ALA D 375	9.974 84.256 91.803 1.00 16.29	С
			10.880 84.385 90.918 1.00 16.64	0
			9.498 85.281 92.544 1.00 16.20	N
			10.032 86.638 92.379 1.00 16.40	С
			9.248 87.627 93.324 1.00 16.11	С
			7.825 87.803 92.781 1.00 16.30	С
ATOM	13694	CD1 ILE D 376	6.843 88.452 93.715 1.00 16.19	С
ATOM	13698	CG2 ILE D 376	9.955 89.010 93.470 1.00 15.48	С
			11.538 86.666 92.678 1.00 17.41	C
			12.324 87.309 91.972 1.00 16.20	0
			11.923 85.948 93.738 1.00 19.09	N
			13.297 85.930 94.250 1.00 20.66	C
			13.382 85.211 95.609 1.00 21.50	C
			14.758 85.331 96.231 1.00 22.32	С
ATOM	13712	OD1 ASN D 377	15.659 84.486 96.019 1.00 24.66	O
			14.940 86.428 96.962 1.00 26.15	N
			14.264 85.247 93.303 1.00 21.20	С
ATOM	13717	O ASN D 377	15.445 85.658 93.169 1.00 22.09	O
			13.731 84.242 92.605 1.00 22.45	N
			14.450 83.547 91.538 1.00 22.55	С
			13.658 82.292 91.021 1.00 22.50	С
			13.750 81.164 92.056 1.00 22.30	С
			12.946 79.921 91.696 1.00 22.32	С
			14.210 81.777 89.682 1.00 22.42	С
			14.710 84.538 90.421 1.00 22.67	С
ATOM	13736	O ILE D 378	15.822 84.598 89.899 1.00 23.46	O
			13.693 85.314 90.058 1.00 23.13	N
		CA PHE D 379	13.713 86.023 88.775 1.00 23.43	C
ATOM	13741	CB PHE D 379	12.330 85.940 88.102 1.00 23.42	C
ATOM	13744	CG PHE D 379	11.977 84.551 87.586 1.00 23.26	C
ATOM	13745	CD1 PHE D 379	10.824 83.888 88.017 1.00 23.13	. C
ATOM	13747	CE1 PHE D 379	10.481 82.638 87.514 1.00 23.45	С
ATOM	13749	CZ PHE D 379	11.295 82.029 86.575 1.00 23.02	С
ATOM	13751	CE2 PHE D 379	12.451 82.678 86.131 1.00 23.17	С
ATOM	13753	CD2 PHE D 379	12.785 83.935 86.634 1.00 23.34	C
ATOM	13755	C PHE D 379	14.228 87.464 88.929 1.00 23.64	С
ATOM	13756	O PHE D 379	13.606 88.431 88.457 1.00 24.39	0
		N SER D 380	15.422 87.579 89.528 1.00 23.56	N
ATOM	13759	CA SER D 380	16.113 88.857 89.670 1.00 23.81	С
ATOM	13761	CB SER D 380	16.723 88.941 91.061 1.00 24.08	C
ATOM	13764	OG SER D 380	15.890 88.308 92.019 1.00 22.99	O
ATOM	13766	C SER D 380	17.217 89.047 88.623 1.00 24.40	С

ATOM	13767	O SER D 380	18.147 88.229 88.549 1.00 24.34	O
ATOM	13768	N ALA D 381	17.110 90.135 87.835 1.00 25.02	N
		CA ALA D 381	18.046 90.400 86.731 1.00 25.63	С
		CB ALA D 381	17.350 91.257 85.629 1.00 25.63	С
		C ALA D 381	19.374 91.056 87.178 1.00 26.26	С
		O ALA D 381	20.350 91.084 86.409 1.00 26.43	0
		N ASP D 382	19.423 91.565 88.413 1.00 27.15	Ň
		CA ASP D 382	20.661 92.158 88.963 1.00 27.84	C
		CB ASP D 382	20.310 93.260 89.959 1.00 27.97	č
		CG ASP D 382	20.075 92.717 91.336 1.00 29.48	Č
		OD1 ASP D 382	19.208 91.823 91.476 1.00 31.55	O
_			20.729 93.085 92.335 1.00 31.34	Ö
		OD2 ASP D 382	21.614 91.140 89.662 1.00 27.85	С
		C ASP D 382		
		O ASP D 382	22.545 91.529 90.450 1.00 28.22	O
		N ARG D 383	21.389 89.846 89.380 1.00 27.58	N
-		CA ARG D 383	22.362 88.816 89.740 1.00 27.32	C
_		CB ARG D 383	21.781 87.417 89.530 1.00 27.18	C
		CG ARG D 383	20.517 87.169 90.283 1.00 26.76	C
		CD ARG D 383	20.626 87.429 91.759 1.00 25.16	C
		NE ARG D 383	19.465 86.902 92.452 1.00 24.18	N
		CZ ARG D 383	19.320 86.892 93.771 1.00 23.48	C
		NH1 ARG D 383	20.267 87.391 94.558 1.00 23.07	N
		NH2 ARG D 383	18.216 86.385 94.301 1.00 22.02	N
		C ARG D 383	23.615 88.962 88.867 1.00 27.18	C
ATOM	13813	O ARG D 383	23.537 89.480 87.750 1.00 27.12	О
ATOM	13814	N PRO D 384	24.769 88.528 89.384 1.00 27.23	N
ATOM	13815	CA PRO D 384	25.991 88.459 88.564 1.00 26.91	C
ATOM	13817	CB PRO D 384	27.082 88.032 89.559 1.00 26.93	C
ATOM	13820	CG PRO D 384	26.338 87.410 90.730 1.00 27.27	C
ATOM	13823	CD PRO D 384	24.989 88.072 90.778 1.00 27.08	C
ATOM	13826	C PRO D 384	25.819 87.395 87.484 1.00 26.70	С
		O PRO D 384	25.138 86.387 87.752 1.00 26.88	Ο
		N ASN D 385	26.387 87.641 86.298 1.00 25.93	N
		CA ASN D 385	26.444 86.662 85.198 1.00 25.76	С
		CB ASN D 385	27.162 85.376 85.639 1.00 25.58	С
		CG ASN D 385	28.619 85.650 86.047 1.00 25.58	С
		OD1 ASN D 385	28.909 85.960 87.233 1.00 25.30	O
		ND2 ASN D 385	29.548 85.537 85.061 1.00 25.65	N
		C ASN D 385	25.125 86.321 84.479 1.00 25.63	C
		O ASN D 385	25.104 85.409 83.641 1.00 25.82	Ö
		N VAL D 386	24.043 87.062 84.746 1.00 25.29	N
		CA VAL D 386	22.814 86.907 83.937 1.00 25.21	C
		CB VAL D 386	21.595 87.548 84.606 1.00 25.07	Č
•		CG1 VAL D 386	20,318 87.212 83.843 1.00 24.86	C
		CG2 VAL D 386	21.480 87.106 86.047 1.00 25.54	C
-		C VAL D 386	22.988 87.590 82.559 1.00 25.15	c
			23.303 88.783 82.506 1.00 24.96	0
		O VAL D 386		
ATOM	13638	N GLN D 387	22.750 86.850 81.467 1.00 25.13	N

ATOM	13860 CA GLN D	387 22.983 87.360 80.103 1.00 25.50	С
ATOM	13862 CB GLN D	23.606 86.270 79.227 1.00 25.28	С
ATOM	13865 CG GLN D	387 24.872 85.665 79.794 1.00 24.89	C
ATOM	13868 CD GLN D	387 24.663 84.237 80.274 1.00 25.18	С
ATOM	13869 OE1 GLN I	24.186 83.364 79.502 1.00 25.79	O
ATOM	13870 NE2 GLN I	387 25.012 83.997 81.559 1.00 26.40	N
ATOM	13873 C GLN D	387 21.742 87.918 79.384 1.00 25.83	С
ATOM	13874 O GLN D	387 21.878 88.634 78.386 1.00 25.87	Ο
ATOM	13875 N GLU D	388 20.544 87.585 79.875 1.00 26.23	N
ATOM	13877 CA GLU I	388 19.297 88.098 79.290 1.00 26.42	С
ATOM	13879 CB GLU D	388 18.482 86.968 78.644 1.00 26.39	C
ATOM	13882 CG GLU D	388 19.135 86.340 77.418 1.00 26.40	С
ATOM	13885 CD GLU D	388 18.706 84.896 77.202 1.00 26.62	C
ATOM	13886 OE1 GLU I	0 388 19.006 84.039 78.077 1.00 27.22	Ο
ATOM	13887 OE2 GLU I	388 18.066 84.616 76.158 1.00 25.94	O
ATOM	13888 C GLU D	388 18.472 88.796 80.370 1.00 26.63	C
ATOM	13889 O GLUD	388 17.370 88.341 80.704 1.00 26.74	Ο
ATOM	13890 N PRO D	389 18.999 89.901 80.910 1.00 26.81	N
ATOM	13891 CA PRO D	389 18.341 90.606 82.023 1.00 26.83	C
ATOM	13893 CB PRO D	389 19.406 91.624 82.451 1.00 26.81	C
ATOM	13896 CG PRO D	389 20.173 91.902 81.223 1.00 26.80	C
ATOM	13899 CD PRO D	20.230 90.596 80.485 1.00 26.85	C
ATOM	13902 C PRO D	389 17.033 91.310 81.594 1.00 26.86	C
ATOM	13903 O PRO D	389 16.163 91.514 82.464 1.00 27.20	O
ATOM	13904 N GLY D	390 16.904 91.668 80.294 1.00 27.13	N
ATOM	13906 CA GLY D	390 15.659 92.210 79.741 1.00 27.02	C
ATOM	13909 C GLY D	390 14.529 91.193 79.814 1.00 27.23	C
ATOM	13910 O GLY D	390 13.395 91.551 80.170 1.00 27.97	Ο
ATOM	13911 N ARG D	391 14.846 89.916 79.515 1.00 26.99	N
ATOM	13913 CA ARG I	0 391 13.886 88.808 79.659 1.00 26.85	C
ATOM	13915 CB ARG I	0 391 14.278 87.645 78.736 1.00 26.79	C
	13918 CG ARG I		C
ATOM	13921 CD ARG I	0 391 14.356 86.794 76.294 1.00 27.09	C
ATOM	13924 NE ARG I) 391 14.388 85.448 76.885 1.00 27.35	N
	13926 CZ ARG D		С
ATOM	13927 NH1 ARG		N
ATOM	13930 NH2 ARG	D 391 14.902 83.204 76.920 1.00 26.29	N
	13933 C ARG D		C
	13934 O ARG D		O
ATOM	13935 N VAL D	392 14.569 88.588 82.040 1.00 26.65	N
	13937 CA VALE		C
	13939 CB VAL D		С
	13941 CG1 VAL I		С
	13945 CG2 VAL I		С
	13949 C VAL D		C
	13950 O VAL D		О
	13951 N GLU D		N
ATOM	13953 CA GLU D	0 393 12.383 91.267 84.364 1.00 27.21	С

ATOM	13955	CB GLU D 393	12.675 92.689 83.754 1.00 27.50	C
ATOM	13958	CG GLU D 393	11.466 93.539 83.301 1.00 27.64	С
ATOM	13961	CD GLU D 393	11.775 94.494 82.130 1.00 28.08	С
			11.975 94.032 80.968 1.00 28.18	Ο
			11.790 95.731 82.359 1.00 28.07	Ο
		C GLU D 393		C
			10.010 90.823 84.862 1.00 27.36	Ö
			10.859 90.303 82.706 1.00 26.84	N
		CA ALA D 394	9.551 89.967 82.113 1.00 26.90	C
			9.694 89.785 80.556 1.00 26.65	Č
		C ALA D 394		C
		O ALA D 394		Ö
		N LEU D 395		N
			9.333 86.545 83.824 1.00 26.66	C
		CB LEU D 395		C
		CG LEU D 395		C
			12.316 84.477 82.513 1.00 27.22	C
			9.942 84.033 81.850 1.00 27.22	C
				C
		C LEU D 395		0
		O LEU D 395		
			9.580 87.829 85.881 1.00 26.22	N
			9.301 88.271 87.252 1.00 26.30	C
		CB GLN D 396		C
		CG GLN D 396		C
		CD GLN D 396		C
			12.298 90.291 90.437 1.00 21.35	O
			11.449 91.797 88.947 1.00 21.28	N
		C GLN D 396		C
		O GLN D 396		0
		N GLN D 397		N
			6.553 90.798 86.317 1.00 26.71	С
		CB GLN D 397		С
ATOM	14019	CG GLN D 397	5.948 93.094 85.271 1.00 27.02	С
ATOM	14022	CD GLN D 397	6.983 94.187 85.067 1.00 26.83	С
ATOM	14023		7.135 94.694 83.958 1.00 26.15	О
			7.696 94.551 86.137 1.00 26.63	N
ATOM	14027	C GLN D 397	5.185 90.133 86.519 1.00 26.73	С
ATOM	14028	O GLN D 397	4.417 90.588 87.358 1.00 26.66	О
ATOM	14029	N PRO D 398	4.856 89.091 85.750 1.00 26.78	N
ATOM	14030	CA PRO D 398	3.631 88.315 86.008 1.00 26.61	С
ATOM	14032	CB PRO D 398	3.774 87.115 85.071 1.00 26.74	С
ATOM	14035	CG PRO D 398	4.591 87.622 83.934 1.00 26.78	С
ATOM	14038	CD PRO D 398	5.573 88.578 84.563 1.00 26.84	С
		C PRO D 398	3.504 87.830 87.448 1.00 26.29	С
ATOM	14042	O PRO D 398	2.415 87.949 88.004 1.00 26.09	0
		N TYR D 399	4.584 87.302 88.029 1.00 26.04	N
_		CA TYR D 399		C
		CB TYR D 399		С
			· · · ·	

ATOM 14	1050	CG TYR D 399	5.965 84.786 88.928 1.00 26.07	С
ATOM 14	1051	CD1 TYR D 399	6.900 84.732 87.903 1.00 26.66	С
ATOM 14	1053	CE1 TYR D 399	7.039 83.601 87.104 1.00 26.67	С
ATOM 14	1055	CZ TYR D 399	6.226 82.506 87.322 1.00 26.59	С
		OH TYR D 399	6.391 81.392 86.526 1.00 25.95	0
		CE2 TYR D 399		C
		CD2 TYR D 399	5.144 83.677 89.130 1.00 26.33	Č
		C TYR D 399	4.286 87.911 90.365 1.00 25.44	С
		O TYR D 399		Ō
		N VAL D 400		N
		CA VAL D 400	4.635 90.269 90.888 1.00 25.22	C
		CB VAL D 400		Č
			5.359 92.672 91.342 1.00 25.47	C
		CG2 VAL D 400	7.101 90.957 90.799 1.00 25.33	Č
		C VAL D 400	3.170 90.751 90.794 1.00 24.85	С
		O VAL D 400		Ö
		N GLU D 401		Ň
			1.219 91.153 89.324 1.00 24.54	C
		CB GLU D 401	0.950 91.243 87.821 1.00 24.93	Č
			1.589 92.435 87.120 1.00 25.22	Č
		CD GLU D 401		Č
		OE1 GLU D 401	0.925 91.366 85.092 1.00 28.67	Ŏ
		OE2 GLU D 401	2.411 92.988 84.949 1.00 27.86	Ŏ
		C GLU D 401	0.176 90.182 89.918 1.00 24.23	C
		O GLU D 401	-1.003 90.581 90.290 1.00 25.03	ŏ
		N ALA D 402	0.621 88.910 90.002 1.00 23.46	N
			-0.117 87.820 90.670 1.00 22.74	C
		_	0.489 86.490 90.270 1.00 22.65	Č
		C ALA D 402	-0.109 87.951 92.216 1.00 22.20	Č
		O ALA D 402	-1.144 87.757 92.860 1.00 21.72	ŏ
			1.047 88.270 92.804 1.00 21.80	N
			1.153 88.378 94.275 1.00 21.69	C
		CB LEU D 403	2.614 88.365 94.764 1.00 21.32	č
		CG LEU D 403	2.877 88.644 96.263 1.00 20.59	Č
		CD1 LEU D 403	2.174 87.643 97.193 1.00 19.48	C
		CD2 LEU D 403	4.374 88.685 96.553 1.00 19.77	Č
		C LEU D 403	0.460 89.643 94.768 1.00 21.92	C
		O LEU D 403	-0.014 89.687 95.903 1.00 21.96	Ō
		N LEU D 404	0.370 90.655 93.897 1.00 22.17	N
		CA LEU D 404	-0.155 91.953 94.316 1.00 22.36	C
		CB LEU D 404	0.215 93.045 93.303 1.00 21.86	Č
		CG LEU D 404	-0.498 94.394 93.455 1.00 21.89	Ċ
		CD1 LEU D 404	-0.338 95.016 94.838 1.00 21.21	C
		CD2 LEU D 404	-0.009 95.367 92.391 1.00 22.61	Č
		C LEU D 404	-1.665 91.875 94.510 1.00 22.77	C
		O LEU D 404	-2.213 92.426 95.471 1.00 22.95	Ö
		N SER D 405	-2.328 91.181 93.587 1.00 23.38	N
		CA SER D 405	-3.775 91.032 93.623 1.00 23.72	C
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ATOM 14147 CB SER D 405 -4.296 90.563 92.261 1.00 23.64 C ATOM 14150 OG SER D 405 -4.049 91.544 91.265 1.00 23.54 0 ATOM 14152 C SER D 405 -4.174 90.041 94.704 1.00 24.14 C ATOM 14153 O SER D 405 -5.198 90.211 95.360 1.00 24.22 0 ATOM 14154 N TYR D 406 -3.367 89.005 94.878 1.00 24.67 N -3.599 88.032 95.935 1.00 25.59 ATOM 14156 CA TYR D 406 C ATOM 14158 CB TYR D 406 -2.493 86.973 95.951 1.00 25.65 C ATOM 14161 CG TYR D 406 -2.802 85.800 96.852 1.00 26.18 C -3.641 84.777 96.425 1.00 27.08 ATOM 14162 CD1 TYR D 406 C -3.934 83.698 97.246 1.00 27.03 ATOM 14164 CE1 TYR D 406 C -3.392 83.637 98.509 1.00 26.80 ATOM 14166 CZ TYR D 406 ATOM 14167 OH TYR D 406 -3.685 82.570 99.320 1.00 26.96 0 -2.565 84.645 98.962 1.00 27.03 ATOM 14169 CE2 TYR D 406 C -2.274 85.718 98.132 1.00 26.61 C ATOM 14171 CD2 TYR D 406 ATOM 14173 C TYR D 406 -3.682 88.684 97.324 1.00 26.22 C -4.589 88.364 98.090 1.00 26.36 ATOM 14174 O TYR D 406 \mathbf{O} ATOM 14175 N THR D 407 -2.735 89.575 97.648 1.00 26.85 N ATOM 14177 CA THR D 407 -2.709 90.253 98.962 1.00 27.09 C ATOM 14179 CB THR D 407 -1.346 90.951 99.248 1.00 26.75 C ATOM 14181 OG1 THR D 407 -0.995 91.848 98.186 1.00 25.68 0 ATOM 14183 CG2 THR D 407 -0.209 89.952 99.274 1.00 27.05 C ATOM 14187 C THR D 407 -3.850 91.269 99.101 1.00 27.77 C ATOM 14188 O THR D 407 -4.240 91.621 100.219 1.00 27.85 0 ATOM 14189 N ARG D 408 -4.371 91.741 97.970 1.00 28.43 N ATOM 14191 CA ARG D 408 -5.540 92.624 97.963 1.00 29.05 C ATOM 14193 CB ARG D 408 -5.687 93.316 96.611 1.00 29.01 C ATOM 14196 CG ARG D 408 -4.740 94.472 96.397 1.00 29.00 C ATOM 14199 CD ARG D 408 -4.713 94.977 94.949 1.00 29.14 C ATOM 14202 NE ARG D 408 -5.018 96.400 94.821 1.00 28.56 N ATOM 14204 CZ ARG D 408 -4.275 97.384 95.322 1.00 29.15 C ATOM 14205 NH1 ARG D 408 -3.165 97.124 96.013 1.00 30.30 N ATOM 14208 NH2 ARG D 408 -4.648 98.643 95.143 1.00 29.46 N ATOM 14211 C ARG D 408 -6.839 91.881 98.290 1.00 29.68 C ATOM 14212 O ARG D 408 -7.776 92.485 98.809 1.00 29.93 0 ATOM 14213 N ILE D 409 -6.898 90.586 97.972 1.00 30.33 N ATOM 14215 CA ILE D 409 -8.078 89.760 98.244 1.00 30.71 \mathbf{C} ATOM 14217 CB ILE D 409 -8.316 88.743 97.089 1.00 30.70 C ATOM 14219 CG1 ILE D 409 -8.597 89.474 95.767 1.00 29.85 C ATOM 14222 CD1 ILE D 409 C -8.176 88.693 94.548 1.00 28.92 ATOM 14226 CG2 ILE D 409 -9.487 87.800 97.408 1.00 30.58 C ATOM 14230 C ILE D 409 -7.967 89.042 99.597 1.00 31.33 C ATOM 14231 O ILE D 409 -8.972 88.799 100.253 1.00 31.40 0 ATOM 14232 N LYS D 410 -6.755 88.705 100.023 1.00 32.21 N ATOM 14234 CA LYS D 410 -6.568 88.131 101.354 1.00 32.89 C ATOM 14236 CB LYS D 410 -5.117 87.679 101.573 1.00 32.85 C ATOM 14239 CG LYS D 410 -4.868 87.026 102.929 1.00 33.02 C ATOM 14242 CD LYS D 410 -3.689 86.066 102.900 1.00 32.61 C ATOM 14245 CE LYS D 410 -3.175 85.775 104.305 1.00 33.06

ATOM	14248	NZ LYS D 410	-1.844 85.100 104.288 1.00 32.45	N
ATOM	14252	C LYS D 410	-7.006 89.188 102.376 1.00 33.50	С
		O LYS D 410	-8.127 89.120 102.904 1.00 33.65	0
			-6.151 90.189 102.593 1.00 33.98	N
		CA ARG D 411	-6.446 91.301 103.497 1.00 34.36	C
		CB ARG D 411	-5.413 91.354 104.636 1.00 34.63	Č
			-4.864 89.996 105.025 1.00 35.78	Č
		CD ARG D 411		Č
				N
		NE ARG D 411		C
		CZ ARG D 411	-2.819 88.448 108.430 1.00 39.02	N
		NH1 ARG D 411		N
		NH2 ARG D 411	-4.851 87.567 109.071 1.00 38.86	
		• •		C
			-5.430 93.253 102.501 1.00 34.15	0
		N PRO D 412		N
		CA PRO D 412	-7.804 94.381 101.635 1.00 33.58	C
ATOM	14281	CB PRO D 412	-9.184 94.309 100.961 1.00 33.54	С
		CG PRO D 412		С
		CD PRO D 412		C
ATOM	14290	C PRO D 412	-7.760 95.552 102.619 1.00 33.32	С
ATOM	14291	O PRO D 412	-7.917 96.697 102.195 1.00 33.47	O
ATOM	14292	N GLN D 413	-7.555 95.258 103.904 1.00 33.03	N
		CA GLN D 413	-7.507 96.264 104.963 1.00 32.59	С
		CB GLN D 413		С
			-9.648 95.069 105.852 1.00 32.48	С
		CD GLN D 413	-10.850 96.000 105.790 1.00 32.38	С
		OE1 GLN D 413	-11.115 96.622 104.758 1.00 32.10	O
			-11.587 96.084 106.891 1.00 32.01	N
			-6.053 96.566 105.376 1.00 32.12	С
			-5.771 97.638 105.930 1.00 32.43	Ö
		• •	-5.143 95.627 105.111 1.00 30.97	N
			-3.724 95.823 105.377 1.00 30.31	C
			-3.159 94.621 106.159 1.00 30.45	Č
				C
			-1.724 94.844 106.639 1.00 30.71	
		OD1 ASP D 414	-1.178 95.959 106.481 1.00 30.59	0 0
		OD2 ASP D 414	-1.053 93.950 107.193 1.00 33.64	
		C ASP D 414	-2.948 96.022 104.070 1.00 29.51	C
-		O ASP D 414	-2.345 95.079 103.543 1.00 29.27	O
		N GLN D 415	-2.938 97.256 103.568 1.00 28.56	N
		CA GLN D 415	-2.243 97.566 102.312 1.00 27.98	C
		CB GLN D 415	-2.849 98.802 101.644 1.00 28.17	C
	_	CG GLN D 415	-2.454 98.939 100.165 1.00 29.01	C
ATOM	14331	CD GLN D 415	-3.344 99.883 99.379 1.00 29.77	С
ATOM	14332	OE1 GLN D 415	-3.842 100.880 99.915 1.00 30.21	O
ATOM	14333	NE2 GLN D 415	-3.532 99.581 98.096 1.00 30.34	N
ATOM	14336	C GLN D 415	-0.725 97.757 102.438 1.00 27.08	C
ATOM	14337	O GLN D 415	-0.072 98.088 101.450 1.00 27.03	Ο
-		N LEU D 416	-0.164 97.568 103.633 1.00 26.01	N

ATOM	14340	CA LEU D 416	1.287 97.634 103.817 1.00 25.35	C
ATOM	14342	CB LEU D 416	1.632 98.378 105.098 1.00 25.26	С
ATOM	14345	CG LEU D 416	1.305 99.868 105.023 1.00 25.38	С
ATOM	14347	CD1 LEU D 416	1.586 100.518 106.361 1.00 26.29	C
ATOM	14351	CD2 LEU D 416	2.090 100.548 103.906 1.00 24.59	C
ATOM	14355	C LEU D 416	1.916 96.251 103.846 1.00 24.93	C
ATOM	14356	O LEU D 416	3.141 96.110 103.919 1.00 24.37	Ο
ATOM	14357	N ARG D 417	1.073 95.231 103.761 1.00 24.23	N
			1.545 93.865 103.770 1.00 23.87	C
ATOM	14361	CB ARG D 417	0.363 92.914 103.937 1.00 24.30	С
ATOM	14364	CG ARG D 417	0.738 91.459 103.953 1.00 24.85	С
ATOM	14367	CD ARG D 417	-0.239 90.589 103.143 1.00 26.32	C
			0.067 89.191 103.357 1.00 25.65	N
ATOM	14372	CZ ARG D 417	-0.120 88.563 104.500 1.00 25.52	C
ATOM	14373	NH1 ARG D 417	-0.653 89.179 105.543 1.00 24.86	N
ATOM	14376	NH2 ARG D 417	0.224 87.292 104.601 1.00 27.39	N
ATOM	14379	C ARG D 417	2.322 93.557 102.490 1.00 22.58	C
ATOM	14380	O ARG D 417	3.385 92.950 102.555 1.00 21.77	О
ATOM	14381	N PHE D 418	1.807 93.987 101.341 1.00 21.50	N
ATOM	14383	CA PHE D 418	2.508 93.725 100.085 1.00 21.07	C
		CB PHE D 418	1.691 94.131 98.860 1.00 20.69	С
ATOM	14388	CG PHE D 418	2.377 93.826 97.560 1.00 21.65	C
ATOM	14389	CD1 PHE D 418	2.880 92.551 97.306 1.00 22.82	С
		CE1 PHE D 418	3.518 92.269 96.100 1.00 22.73	C
		CZ PHE D 418	3.665 93.254 95.149 1.00 21.48	С
			3.186 94.526 95.397 1.00 20.67	C
ATOM	14397	CD2 PHE D 418	2.551 94.810 96.596 1.00 21.06	С
		C PHE D 418	3.922 94.336 100.030 1.00 20.35	C
		O PHE D 418		О
			4.081 95.623 100.325 1.00 19.44	N
			5.415 96.222 100.322 1.00 19.00	C
		CB PRO D 419	5.151 97.688 100.695 1.00 19.07	С
			3.708 97.920 100.399 1.00 19.03	C
		CD PRO D 419	3.045 96.620 100.659 1.00 19.88	C
		C PRO D 419	6.323 95.564 101.338 1.00 18.70	С
		O PRO D 419	7.491 95.422 101.075 1.00 18.25	О
		N ARG D 420	5.781 95.159 102.475 1.00 18.74	N
		CA ARG D 420	6.570 94.525 103.509 1.00 19.10	С
		CB ARG D 420	5.727 94.308 104.772 1.00 19.42	С
		CG ARG D 420	5.610 95.531 105.690 1.00 21.39	C
		CD ARG D 420	5.506 95.171 107.174 1.00 24.71	C
		NE ARG D 420	5.136 96.302 108.027 1.00 25.99	N
		CZ ARG D 420	3.894 96.654 108.327 1.00 27.35	С
_		NH1 ARG D 420	2.846 95.988 107.837 1.00 28.76	N
		NH2 ARG D 420	3.692 97.691 109.124 1.00 28.38	N
_		C ARG D 420	7.154 93.192 103.012 1.00 18.86	C
-		O ARG D 420	8.284 92.845 103.339 1.00 18.33	0
ATOM	14439	N MET D 421	6.382 92.461 102.216 1.00 18.99	N

ATOM	14441	CA MET D 421	6.832 91.199 101.635 1.00 19.13	С
		CB MET D 421	5,700 90,531 100.862 1.00 19.64	С
		CG MET D 421	4.783 89.695 101.721 1.00 20.31	С
		SD MET D 421	3.336 89.252 100.764 1.00 21.27	S
		CE MET D 421	3.750 87.736 100.250 1.00 21.18	С
_		C MET D 421	7.973 91.422 100.674 1.00 18.77	C
		O MET D 421	8.883 90.618 100.605 1.00 18.22	Ŏ
		N LEU D 422		N
		CA LEU D 422	8.961 92.834 98.985 1.00 19.09	C
		CB LEU D 422	8.500 93.861 97.943 1.00 19.10	Č
		CG LEU D 422	7.224 93.541 97.168 1.00 19.36	Č
			6.874 94.710 96.311 1.00 20.66	Č
		CD1 LEU D 422	7.385 92.288 96.330 1.00 19.92	Č
		C LEU D 422	10.165 93.360 99.745 1.00 19.29	C
		O LEU D 422	11.298 93.160 99.322 1.00 19.59	Ö
			9.930 94.020 100.874 1.00 19.59	N
		CA MET D 423	11.037 94.491 101.714 1.00 20.09	C
		CB MET D 423	10.549 95.321 102.908 1.00 20.43	Č
			9.777 96.590 102.599 1.00 23.17	C
		SD MET D 423	10.620 97.852 101.626 1.00 29.21	S
			12.328 97.743 102.213 1.00 28.12	C
		C MET D 423	11.861 93.310 102.246 1.00 19.20	Č
		O MET D 423	13.019 93.459 102.573 1.00 18.48	Ö
		N LYS D 424	11.260 92.137 102.313 1.00 19.52	N
		CA LYS D 424	11.970 90.937 102.758 1.00 19.82	C
		CB LYS D 424	10.984 89.863 103.164 1.00 20.40	Č
		CG LYS D 424		Č
		CD LYS D 424	10.796 90.295 105.693 1.00 24.24	Č
		CE LYS D 424	10.134 91.289 106.695 1.00 26.61	C
		NZ LYS D 424	9.692 92.624 106.067 1.00 28.24	N
		C LYS D 424		ē
			13.913 89.731 102.136 1.00 20.18	Ō
		N LEU D 425	12.718 90.642 100.451 1.00 19.63	N
		CA LEU D 425	13.709 90.377 99.398 1.00 19.13	C
		CB LEU D 425	13.155 90.746 98.007 1.00 18.97	Č
		CG LEU D 425	11.926 90.004 97.484 1.00 18.90	Č
		CD1 LEU D 425	11.445 90.629 96.155 1.00 17.97	С
		CD2 LEU D 425	12.229 88.521 97.335 1.00 18.45	Ċ
		C LEU D 425	14.997 91.170 99.605 1.00 18.76	С
		O LEU D 425	16.080 90.714 99.259 1.00 18.22	0
		N VAL D 426	14.852 92.383 100.117 1.00 18.84	N
		CA VAL D 426	15.991 93.231 100.456 1.00 19.33	C
		CB VAL D 426	15,564 94.666 100.888 1.00 19.58	Č
		CG1 VAL D 426	16.794 95.574 100.987 1.00 19.60	Č
		CG2 VAL D 426	14.524 95.278 99.903 1.00 19.48	Č
		C VAL D 426	16.766 92.612 101.609 1.00 19.51	C
		O VAL D 426	17.999 92.603 101.612 1.00 19.27	0
-		N SER D 427	16.022 92.094 102.584 1.00 19.50	N
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ATOM 14551	CA SER D 427	16.618 91.452 103.728 1.00 19.64	С
ATOM 14553	CB SER D 427	15.560 91.076 104.771 1.00 19.70	\mathbf{C}
ATOM 14556	OG SER D 427	14.918 92.226 105.261 1.00 18.68	O
	C SER D 427	17.359 90.217 103.268 1.00 19.62	C
	O SER D 427	18.460 89.960 103.731 1.00 19.71	O
	N LEU D 428	16.768 89.461 102.350 1.00 19.60	N
	CA LEU D 428	17.430 88.260 101.823 1.00 19.70	С
	CB LEU D 428		С
	CG LEU D 428		С
	CD1 LEU D 428	14.341 86.450 100.519 1.00 19.67	С
	CD2 LEU D 428	15.845 85.662 102.306 1.00 17.49	С
	C LEU D 428	18.798 88.546 101.204 1.00 20.08	C
	O LEU D 428	19.719 87.768 101.389 1.00 20.31	O
	N ARG D 429	18.952 89.682 100.535 1.00 20.87	N
	CA ARG D 429	20,265 90.082 100.031 1.00 21.39	C
	CB ARG D 429		C
	CG ARG D 429	19.280 91.251 98.003 1.00 20.84	C
	CD ARG D 429	19.770 90.313 96.958 1.00 20.94	C
	NE ARG D 429	18.678 89.931 96.073 1.00 21.17	N
	CZ ARG D 429		С
		19.569 90.911 94.179 1.00 18.15	N
	NH2 ARG D 429		N
	C ARG D 429	21.275 90.298 101.143 1.00 22.40	С
	O ARG D 429	22.387 89.846 101.024 1.00 23.69	O
	N THR D 430	20.904 90.979 102.221 1.00 23.30	N
	CA THR D 430	21.838 91.236 103.329 1.00 23.82	С
	CB THR D 430	21.180 92.171 104.395 1.00 23.63	С
		21.223 93.537 103.948 1.00 24.57	O
ATOM 14611	CG2 THR D 430	21.980 92.197 105.710 1.00 23.10	C
	C THR D 430	22.283 89.928 103.984 1.00 24.24	C
ATOM 14616	O THR D 430	23.434 89.762 104.364 1.00 24.96	O
	N LEU D 431		N
ATOM 14619	CA LEU D 431	21.561 87.716 104.729 1.00 24.97	С
ATOM 14621	CB LEU D 431	20.213 87.008 104.856 1.00 24.72	C
ATOM 14624	CG LEU D 431	19.473 86.920 106.203 1.00 25.30	C
ATOM 14626	CD1 LEU D 431	20.058 87.755 107.324 1.00 25.42	C
ATOM 14630	CD2 LEU D 431	17.988 87.212 106.047 1.00 24.32	C
ATOM 14634	C LEU D 431	22.546 86.846 103.919 1.00 25.70	C
ATOM 14635	O LEU D 431	23.233 86.014 104.481 1.00 25.14	O
ATOM 14636	N SER D 432	22.603 87.060 102.602 1.00 26.94	N
ATOM 14638	CA SER D 432	23.599 86.436 101.735 1.00 27.75	С
ATOM 14640	CB SER D 432	23.347 86.779 100.264 1.00 27.96	C
	OG SER D 432	22.562 85.771 99.649 1.00 29.47	Ο
ATOM 14645	C SER D 432	25.020 86.838 102.101 1.00 28.16	C
ATOM 14646	O SER D 432	25.918 85.998 102.101 1.00 28.43	Ο
ATOM 14647	' N SER D 433	25.241 88.112 102.403 1.00 28.31	N
-	CA SER D 433	26.575 88.527 102.835 1.00 28.49	С
ATOM 14651	CB SER D 433	26.699 90.042 102.796 1.00 28.45	С

ATOM	14654	OG SER D 433	26.638 90.478 101.451 1.00 28.91	0
ATOM	14656	C SER D 433	26.950 87.959 104.216 1.00 28.47	C
ATOM	14657	O SER D 433	28.082 87.536 104.426 1.00 28.09	O
ATOM	14658	N VAL D 434	25.998 87.926 105.145 1.00 28.89	N
ATOM	14660	CA VALD 434	26.218 87.262 106.442 1.00 29.21	C
ATOM	14662	CB VALD 434	25.005 87.435 107.382 1.00 29.01	C
ATOM	14664	CG1 VAL D 434	25.059 86.481 108.564 1.00 29.49	С
ATOM	14668	CG2 VAL D 434	24.929 88.865 107.878 1.00 29.74	C
ATOM	14672	C VAL D 434	26.569 85.767 106.236 1.00 29.32	С
ATOM	14673	O VAL D 434	27.430 85.215 106.942 1.00 29.25	О
ATOM	14674	N HIS D 435	25.934 85.127 105.257 1.00 29.25	N
ATOM	14676	CA HIS D 435	26.223 83.725 104.984 1.00 29.62	С
ATOM	14678	CB HIS D 435	25.227 83.128 103.997 1.00 29.47	C
ATOM	14681	CG HIS D 435	25.667 81.818 103.432 1.00 30.09	C
ATOM	14682	ND1 HIS D 435	26.210 81.699 102.171 1.00 31.27	N
ATOM	14684	CE1 HIS D 435	26.515 80.434 101.946 1.00 32.03	C
ATOM	14686	NE2 HIS D 435	26.202 79.732 103.020 1.00 31.67	N
ATOM	14688	CD2 HIS D 435	25.669 80.574 103.963 1.00 30.51	С
ATOM	14690	C HIS D 435	27.654 83.563 104.460 1.00 29.81	С
ATOM	14691	O HIS D 435	28.359 82.645 104.865 1.00 29.40	О
ATOM	14692	N SER D 436	28.080 84.478 103.593 1.00 30.21	N
ATOM	14694	CA SER D 436	29.422 84.433 103.014 1.00 30.90	C
ATOM	14696	CB SER D 436	29.543 85.433 101.874 1.00 30.73	С
ATOM	14699	OG SER D 436	28.677 85.053 100.821 1.00 31.21	О
ATOM	14701	C SER D 436	30.525 84.678 104.039 1.00 31.31	С
ATOM	14702	O SER D 436	31.659 84.236 103.846 1.00 31.66	Ο
ATOM	14703	N GLU D 437	30.190 85.384 105.116 1.00 31.66	N
ATOM	14705	CA GLU D 437	31.111 85.590 106.232 1.00 31.86	C
ATOM	14707	CB GLU D 437	30.667 86.779 107.096 1.00 32.13	C
ATOM	14710	CG GLU D 437	30.690 88.122 106.378 1.00 33.24	С
ATOM	14713	CD GLU D 437	30.107 89.251 107.222 1.00 34.45	C
ATOM	14714	OE1 GLU D 437	30.744 90.327 107.285 1.00 35.95	О
ATOM	14715	OE2 GLU D 437	29.024 89.066 107.825 1.00 34.25	O
ATOM	14716	C GLU D 437	31.203 84.333 107.101 1.00 31.52	C
ATOM	14717	O GLU D 437	32.249 84.077 107.703 1.00 31.30	Ο
ATOM	14718	N GLN D 438	30.109 83.569 107.183 1.00 31.14	N
ATOM	14720	CA GLN D 438	30.120 82.299 107.909 1.00 30.94	С
ATOM	14722	CB GLN D 438	28.695 81.757 108.135 1.00 31.03	С
ATOM	14725	CG GLN D 438	28.607 80.274 108.614 1.00 31.22	C
ATOM	14728	CD GLN D 438	29.016 80.078 110.089 1.00 31.76	C
ATOM	14729	OE1 GLN D 438	28.244 80.392 111.002 1.00 31.04	О
ATOM	14730	NE2 GLN D 438	30.225 79.560 110.312 1.00 29.92	N
ATOM	14733	C GLN D 438	30.991 81.273 107.173 1.00 30.81	C
ATOM	14734	O GLN D 438	31.746 80.546 107.819 1.00 30.62	0
ATOM	14735	N VAL D 439	30.906 81.219 105.841 1.00 30.52	N
		CA VALD 439	31.718 80.257 105.086 1.00 30.75	С
		CB VAL D 439	31.245 80.054 103.598 1.00 30.81	C
		CG1 VAL D 439		C

ATOM	14745	CG2 VAL D 439	31.684 81.193 102.687 1.00 31.23	C
		C VAL D 439	33.222 80.606 105.182 1.00 30.44	C
		O VAL D 439	34.065 79.711 105.219 1.00 29.96	0
		N PHE D 440	33.534 81.899 105.276 1.00 30.38	N
		CA PHE D 440	34.904 82.361 105.518 1.00 30.41	С
		CB PHE D 440	35.013 83.866 105.270 1.00 30.44	С
_		CG PHE D 440	36.393 84.311 104.877 1.00 30.67	С
		CD1 PHE D 440	36.805 84.243 103.550 1.00 30.83	C
		CE1 PHE D 440	38.082 84.648 103.176 1.00 31.37	С
		CZ PHE D 440	38.962 85.117 104.138 1.00 31.42	С
ATOM	14765	CE2 PHE D 440	38.559 85.183 105.471 1.00 31.19	С
		CD2 PHE D 440	37.282 84.782 105.831 1.00 30.44	C
ATOM	14769	C PHE D 440	35.401 82.033 106.936 1.00 30.45	C
		O PHE D 440	36.591 81.805 107.147 1.00 29.95	0
		N ALA D 441	34.478 82.015 107.898 1.00 30.73	N
		CA ALA D 441	34.781 81.635 109.285 1.00 30.85	С
			33.634 82.049 110.209 1.00 30.85	С
ATOM	14779	C ALA D 441	35.053 80.133 109.441 1.00 30.94	C
		O ALA D 441	35.767 79.727 110.356 1.00 30.83	0
ATOM	14781	N LEU D 442	34.467 79.315 108.565 1.00 31.13	N
		CA LEU D 442	34.731 77.873 108.555 1.00 31.31	C
ATOM	14785	CB LEU D 442	33.725 77.135 107.664 1.00 31.20	C
ATOM	14788	CG LEU D 442	32.238 77.265 108.022 1.00 30.88	C
ATOM	14790	CD1 LEU D 442	31.386 76.727 106.887 1.00 30.89	C
ATOM	14794	CD2 LEU D 442	31.890 76.563 109.330 1.00 30.24	C
ATOM	14798	C LEU D 442	36.158 77.592 108.071 1.00 31.51	С
ATOM	14799	O LEU D 442	36.813 76.673 108.564 1.00 31.53	0
ATOM	14800	N ARG D 443	36.628 78.398 107.116 1.00 31.71	N
ATOM	14802	CA ARG D 443	37.975 78.262 106.561 1.00 31.95	C
ATOM	14804	CB ARG D 443	38.206 79.267 105.420 1.00 31.99	C
ATOM	14807	CG ARG D 443	37.193 79.183 104.280 1.00 31.97	C
ATOM	14810	CD ARG D 443	37.816 79.070 102.902 1.00 32.22	C
ATOM	14813	NE ARG D 443	38.495 77.785 102.709 1.00 32.12	N
ATOM	14815	CZ ARG D 443	38.678 77.178 101.533 1.00 31.98	C
ATOM	14816	NH1 ARG D 443	38.243 77.723 100.398 1.00 31.78	N
ATOM	14819	NH2 ARG D 443	39.307 76.008 101.492 1.00 32.13	N
ATOM	14822	C ARG D 443	39.056 78.451 107.628 1.00 32.19	C
ATOM	14823	O ARG D 443	39.853 77.538 107.877 1.00 32.10	0
ATOM	14824	N LEU D 444	39.072 79.635 108.246 1.00 32.28	N
ATOM	14826	CA LEUD 444	40.090 80.001 109.235 1.00 32.40	С
		CB LEU D 444	41.001 81.122 108.692 1.00 32.38	С
ATOM	14831	CG LEU D 444	42.329 80.722 108.016 1.00 32.37	С
ATOM	14833	CD1 LEU D 444	42.378 81.192 106.562 1.00 32.45	C
ATOM	14837	CD2 LEU D 444	43.551 81.254 108.782 1.00 31.94	С
-		C LEU D 444	39.412 80.446 110.529 1.00 32.42	C
		O LEU D 444	38.555 79.740 111.067 1.00 32.44	Ο
		N LYS D 448	34.947 72.050 107.030 1.00 34.64	N
ATOM	14845	CA LYS D 448	34.907 71.929 105.578 1.00 34.99	C

ATOM	14847	CB LYS D 448	36.021 70.996 105.093 1.00 35.07	C
ATOM	14850	CG LYS D 448	36.561 71.335 103.697 1.00 35.46	С
ATOM	14853	CD LYS D 448	38.021 70.913 103.507 1.00 35.52	C
ATOM	14856	CE LYS D 448	38.782 71.888 102.613 1.00 35.75	С
		NZ LYS D 448	38.790 73.273 103.170 1.00 35.45	N
		C LYS D 448	33.545 71.424 105.087 1.00 35.13	С
		O LYS D 448	32.897 70.608 105.753 1.00 34.83	Ō
		N LEU D 449	33.141 71.901 103.905 1.00 35.26	Ň
		CA LEU D 449	31.821 71.627 103.330 1.00 35.21	C
		CB LEU D 449	31.285 72.871 102.618 1.00 35.38	Č
		CG LEU D 449	30.930 74.105 103.453 1.00 35.63	Č
			32.179 74.874 103.879 1.00 35.69	C
		CD2 LEU D 449	30.001 75.006 102.658 1.00 35.86	Č
		C LEU D 449	31.847 70.479 102.314 1.00 34.98	C
		O LEU D 449	32.843 70.282 101.624 1.00 35.07	Ö
		N PRO D 450	30.743 69.741 102.210 1.00 34.76	N
		CA PRO D 450	30.616 68.660 101.228 1.00 34.77	C
			29.351 67.927 101.682 1.00 34.69	C
		CB PRO D 450		C
		CG PRO D 450	28.564 68.941 102.379 1.00 34.66	C
		CD PRO D 450	29.526 69.877 103.025 1.00 34.64	
		C PRO D 450	30.461 69.206 99.805 1.00 34.79	C
		O PRO D 450	30.167 70.400 99.685 1.00 34.49	0
		N PRO D 451	30.619 68.360 98.773 1.00 34.72	N
-		CA PRO D 451	30.835 68.818 97.384 1.00 34.70	C
		CB PRO D 451	31.029 67.504 96.597 1.00 34.62	C
		CG PRO D 451	31.349 66.471 97.617 1.00 34.64	C
		CD PRO D 451	30.599 66.886 98.858 1.00 34.77	С
		C PRO D 451	29.720 69.669 96.734 1.00 34.74	C
		O PRO D 451	30.038 70.702 96.133 1.00 34.68	0
		N LEU D 452	28.460 69.242 96.835 1.00 34.79	N
		CA LEU D 452	27.345 69.976 96.214 1.00 34.88	С
ATOM	14916	CB LEU D 452	26.040 69.161 96.309 1.00 34.89	C
		CG LEU D 452	24.684 69.814 95.969 1.00 35.02	C
ATOM	14921	CD1 LEU D 452	24.629 70.474 94.591 1.00 34.55	C
ATOM	14925	CD2 LEU D 452	23.592 68.757 96.069 1.00 35.62	C
		C LEU D 452	27.148 71.405 96.770 1.00 34.94	C
ATOM	14930	O LEU D 452	26.815 72.318 96.016 1.00 34.78	O
ATOM	14931	N LEU D 453	27.347 71.592 98.077 1.00 35.18	N
ATOM	14933	CA LEU D 453	27.282 72.926 98.700 1.00 35.02	C
ATOM	14935	CB LEU D 453	27.171 72.820 100.224 1.00 34.90	C
ATOM	14938	CG LEU D 453	26.136 71.864 100.796 1.00 34.34	C
ATOM	14940	CD1 LEU D 453	26.089 71.983 102.308 1.00 33.70	C
ATOM	14944	CD2 LEU D 453	24.790 72.163 100.175 1.00 34.72	C
ATOM	14948	C LEU D 453	28.537 73.723 98.376 1.00 35.40	C
ATOM	14949	O LEU D 453	28.492 74.945 98.240 1.00 35.08	0
ATOM	14950	N SER D 454	29.655 73.008 98.254 1.00 35.96	N
ATOM	14952	CA SER D 454	30.975 73.616 98.087 1.00 36.46	С
ATOM	14954	CB SER D 454	32.071 72.577 98.372 1.00 36.43	C

ATOM 14957	OG SER D 454	33.361 73.123 98.171 1.00 36.10	0
ATOM 14959	C SER D 454	31.237 74.267 96.718 1.00 36.90	С
ATOM 14960	O SER D 454	32.242 74.956 96.571 1.00 37.02	O
ATOM 14961	N GLU D 455	30.381 74.042 95.718 1.00 37.37	N
	CA GLU D 455	30.544 74.722 94.422 1.00 37.88	С
	CB GLU D 455	30.527 73.727 93.254 1.00 37.89	Ċ
	CG GLU D 455	31.835 73.692 92.452 1.00 37.95	Č
	CD GLU D 455	31.982 74.834 91.444 1.00 37.79	Č
	OE1 GLU D 455		Ō
	OE2 GLU D 455		ő
	C GLU D 455	29.503 75.820 94.213 1.00 38.30	C
	O GLU D 455	29.726 76.754 93.437 1.00 38.43	Ö
	N ILE D 456	28.377 75.706 94.908 1.00 38.61	N
	CA ILE D 456	27.346 76.730 94.861 1.00 38.01	C
		25.980 76.133 95.311 1.00 39.07	C
	CB ILE D 456	25.531 75.080 94.287 1.00 39.36	C
	CG1 ILE D 456		C
	CD1 ILE D 456	24.069 74.671 94.366 1.00 39.58	C
	CG2 ILE D 456	24.910 77.214 95.447 1.00 39.38	
	C ILE D 456	27.761 77.939 95.700 1.00 39.21	C
	O ILE D 456		0
	N TRP D 457		N
	CA TRP D 457	28.857 78.749 97.741 1.00 39.76	C
	CB TRP D 457		C
	CG TRP D 457	26.820 78.269 99.108 1.00 38.92	C
	CD1 TRP D 457	25.927 78.926 98.312 1.00 38.56	С
ATOM 15005	NE1 TRP D 457	24.648 78.519 98.601 1.00 39.10	N
ATOM 15007	CE2 TRP D 457	24.701 77.589 99.605 1.00 38.98	C
ATOM 15008	CD2 TRP D 457	26.059 77.407 99.941 1.00 38.91	С
ATOM 15009	CE3 TRP D 457	26.383 76.501 100.953 1.00 39.11	C
ATOM 15011	CZ3 TRP D 457	25.366 75.818 101.582 1.00 39.86	C
ATOM 15013	CH2 TRP D 457	24.029 76.010 101.215 1.00 39.88	C
ATOM 15015	CZ2 TRP D 457	23.677 76.895 100.232 1.00 39.05	C
ATOM 15017	C TRP D 457	30.342 79.021 97.909 1.00 40.23	С
ATOM 15018	O TRP D 457	30.725 80.152 98.223 1.00 40.26	Ο
ATOM 15019	N ASP D 458	31.178 78.001 97.719 1.00 40.77	N
ATOM 15021	CA ASP D 458	32.626 78.189 97.802 1.00 41.23	С
ATOM 15023	CB ASP D 458	33.326 76.921 98.334 1.00 41.27	C
	CG ASP D 458	34.181 77.191 99.564 1.00 41.37	С
	OD1 ASP D 458	35.428 77.195 99.444 1.00 41.88	0
	OD2 ASP D 458	33.692 77.399 100.692 1.00 40.74	0
	C ASP D 458	33.182 78.632 96.438 1.00 41.54	С
	O ASP D 458	34.243 78.182 96.015 1.00 41.72	Ō
	N VAL D 459	32.450 79.516 95.756 1.00 41.97	N
	CA VAL D 459	32.975 80.218 94.588 1.00 42.46	C
	CB VAL D 459	31.942 81.206 93.928 1.00 42.53	č
	CG1 VAL D 459		C
	CG2 VAL D 459		C
	C VAL D 459	34.197 81.015 95.067 1.00 42.82	c
WIOM 19049	○ V AL D 437	JT.17/ 01.01J 7J.00/ 1.00 42.02	C

ATOM 15046 O VAL D 459	35.252 81.026 94.402 1.00 42.59	O
ATOM 15047 N ALA D 460	34.026 81.664 96.228 1.00 43.00	N
ATOM 15049 CA ALA D 460	35.110 82.301 96.978 1.00 43.14	С
ATOM 15051 CB ALA D 460	35.816 81.264 97.854 1.00 43.11	C
ATOM 15055 C ALA D 460	36.121 83.020 96.079 1.00 43.30	С
ATOM 15056 O ALA D 460	35.747 83.832 95.227 1.00 43.57	0
ATOM 15057 O37 GW3 D 500	13.548 70.869 105.884 1.00 16.41	O
ATOM 15058 C35 GW3 D 500	13.232 70.601 104.723 1.00 16.39	С
ATOM 15059 O36 GW3 D 500	12.236 69.888 104.451 1.00 15.82	O
ATOM 15060 C34 GW3 D 500	14.080 71.074 103.567 1.00 17.86	С
ATOM 15063 C32 GW3 D 500	15.021 72.154 104.070 1.00 16.05	С
ATOM 15064 C33 GW3 D 500	16.253 71.826 104.636 1.00 18.02	С
ATOM 15066 C31 GW3 D 500	14.616 73.476 104.054 1.00 15.89	С
ATOM 15068 C30 GW3 D 500	15.423 74.480 104.587 1.00 17.32	С
ATOM 15070 C29 GW3 D 500	16.648 74.153 105.166 1.00 17.58	C
ATOM 15072 C28 GW3 D 500	17.060 72.823 105.192 1.00 18.10	С
ATOM 15073 O27 GW3 D 500	18.283 72.474 105.720 1.00 19.56	O
ATOM 15074 C26 GW3 D 500	18.704 72.905 107.021 1.00 20.06	C
ATOM 15077 C25 GW3 D 500	19.806 73.952 106.982 1.00 18.98	С
ATOM 15080 C17 GW3 D 500	20.478 73.970 108.355 1.00 18.31	С
ATOM 15083 N09 GW3 D 500	21.606 74.885 108.246 1.00 19.97	N
ATOM 15084 C16 GW3 D 500	22.784 74.316 107.594 1.00 24.93	C
ATOM 15087 C18 GW3 D 500	23.430 75.263 106.611 1.00 30.42	C
ATOM 15088 C19 GW3 D 500	24.890 75.368 106.619 1.00 35.20	C
ATOM 15089 CL4 GW3 D 500	25.828 74.361 107.749 1.00 47.85	CL
ATOM 15090 C23 GW3 D 500	22.720 76.043 105.720 1.00 30.51	C
ATOM 15092 C22 GW3 D 500	23.392 76.905 104.852 1.00 31.39	С
ATOM 15094 C21 GW3 D 500	24.778 77.026 104.837 1.00 33.11	C
ATOM 15096 C20 GW3 D 500	25.567 76.275 105.690 1.00 36.39	С
ATOM 15097 C39 GW3 D 500	27.070 76.362 105.735 1.00 39.23	C
ATOM 15098 F41 GW3 D 500	27.358 77.126 106.788 1.00 39.59	F
ATOM 15099 F40 GW3 D 500	27.575 76.876 104.610 1.00 41.53	F
ATOM 15100 F42 GW3 D 500	27.580 75.145 105.918 1.00 39.38	F
ATOM 15101 C08 GW3 D 500	21.717 76.170 108.940 1.00 17.07	С
ATOM 15104 C07 GW3 D 500	20.438 77.064 108.875 1.00 16.36	С
ATOM 15106 C01 GW3 D 500	20.374 77.962 110.062 1.00 11.02	С
ATOM 15107 C02 GW3 D 500	21.519 78.494 110.615 1.00 10.22	С
ATOM 15109 C03 GW3 D 500	21.426 79.284 111.743 1.00 12.67	С
ATOM 15111 C04 GW3 D 500	20.203 79.550 112.321 1.00 10.69	С
ATOM 15113 C05 GW3 D 500	19.072 79.006 111.767 1.00 11.38	С
ATOM 15115 C06 GW3 D 500	19.151 78.212 110.639 1.00 9.62	С
ATOM 15117 C10 GW3 D 500	20.374 77.856 107.634 1.00 14.02	С
ATOM 15118 C11 GW3 D 500	19.252 77.742 106.835 1.00 14.79	С
ATOM 15120 C12 GW3 D 500	19.178 78.464 105.639 1.00 15.98	C
ATOM 15122 C13 GW3 D 500	20.230 79.295 105.247 1.00 15.10	С
ATOM 15124 C14 GW3 D 500	21.350 79.408 106.057 1.00 16.14	C
ATOM 15126 C15 GW3 D 500	21.419 78.684 107.256 1.00 15.70	C
ATOM 15128 OH2 HOH X 1	18.790 0.840 49.638 1.00 22.14	O

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ATOM	15131	OH2 HOH X 2	4.938 10.777 59.364 1.00 37.13	O
ATOM	15134	OH2 HOH X 3	18.192 16.160 44.592 1.00 37.55	O
ATOM	15137	OH2 HOH X 4	17.987 8.850 28.963 1.00 27.85	O
ATOM	15140	OH2 HOH X 5	40.090 11.660 53.242 1.00 30.61	О
ATOM	15143	OH2 HOH X 6	2.908 108.597 106.139 1.00 26.43	O
ATOM	15146	OH2 HOH X 7	14.579 16.383 31.965 1.00 21.09	O
ATOM	15149	OH2 HOH X 8	27.923 32.560 63.897 1.00 26.46	O
ATOM	15152	OH2 HOH X 9	18.516 103.152 118.880 1.00 46.43	O
ATOM	15155	OH2 HOH X 10	35.600 11.075 53.954 1.00 35.17	O
ATOM	15158	OH2 HOH X 11	17.891 86.433 116.773 1.00 28.72	O
ATOM	15161	OH2 HOH X 12	20.659 102.067 106.686 1.00 39.04	Ο
ATOM	15164	OH2 HOH X 13	6.255 5.594 60.601 1.00 35.66	0
ATOM	15167	OH2 HOH X 14	12.446 10.305 34.580 1.00 33.82	O
ATOM	15170	OH2 HOH X 15	21.905 103.033 119.421 1.00 46.04	Ο
ATOM	15173	OH2 HOH X 16	15.495 79.869 119.859 1.00 27.60	Ο
ATOM	15176	OH2 HOH X 17	22.863 11.320 39.642 1.00 41.61	O
ATOM	15179	OH2 HOH X 18	8.709 0.631 56.792 1.00 38.76	O
ATOM	15182	OH2 HOH X 19	7.037 9.215 65.433 1.00 43.83	O
ATOM	15185	OH2 HOH X 20	54.635 7.068 56.437 1.00 41.98	O
ATOM	15188	OH2 HOH X 21	42.480 26.500 64.819 1.00 41.55	О
ATOM	15191	OH2 HOH X 22	8.305 5.264 32.612 1.00 41.61	O
ATOM	15194	OH2 HOH X 23	23.420 -0.054 51.116 1.00 34.49	O
ATOM	15197	OH2 HOH X 24	37.247 30.829 49.611 1.00 33.54	О
ATOM	15200	OH2 HOH X 25	15.797 113.527 113.002 1.00 44.57	О
ATOM	15203	OH2 HOH X 26	16.914 8.250 46.298 1.00 32.98	O
ATOM	15206	OH2 HOH X 27	24.058 37.767 62.019 1.00 46.39	O
ATOM	15209	OH2 HOH X 28	7.479 85.903 114.822 1.00 38.76	О
ATOM	15212	OH2 HOH X 29	-0.801 10.033 48.373 1.00 28.12	O
ATOM	15215	OH2 HOH X 30	25.359 6.806 37.379 1.00 44.68	O
ATOM	15218	OH2 HOH X 31	26.245 22.106 65.105 1.00 44.09	О
ATOM	15221	OH2 HOH X 32	3.043 26.213 48.170 1.00 39.25	O
ATOM	15224	OH2 HOH X 33	14.270 108.533 121.439 1.00 45.88	Ο
ATOM	15227	OH2 HOH X 34	25.897 99.315 110.080 1.00 49.71	O
ATOM	15230	OH2 HOH X 35	39.275 38.100 54.172 1.00 34.47	O
ATOM	15233	OH2 HOH X 36	12.488 90.316 114.086 1.00 30.18	O
ATOM	15236	OH2 HOH X 37	13.583 83.713 117.672 1.00 24.50	O
ATOM	15239	OH2 HOH X 38	7.331 87.765 116.864 1.00 38.02	O
ATOM	15242	OH2 HOH X 39	40.322 4.034 51.416 1.00 45.41	O
ATOM	15245	OH2 HOH X 40	38.097 9.828 60.620 1.00 32.43	Ο
ATOM	15248	OH2 HOH X 41	19.891 15.332 48.107 1.00 51.05	O
ATOM	15251	OH2 HOH X 42	35.963 16.094 59.088 1.00 27.23	O
ATOM	15254	OH2 HOH X 43	22.170 4.237 49.614 1.00 41.38	O
ATOM	15257	OH2 HOH X 44	16.930 1.886 36.884 1.00 29.31	0
ATOM	15260	OH2 HOH X 45	20.557 2.022 40.300 1.00 34.55	0
ATOM	15263	OH2 HOH X 46	8.116 2.675 58.430 1.00 37.39	O
		OH2 HOH X 47	6.631 23.602 49.344 1.00 33.65	0
ATOM	15269	OH2 HOH X 48	29.292 18.080 63.496 1.00 41.30	0
ATOM	15272	OH2 HOH X 49	21.029 10.754 52.135 1.00 28.27	O

ATOM	15275	OH2 HOH X	50	40.045 7.948 61.610 1.00 39.89	O
ATOM	15278	OH2 HOH X	51	30.259 15.117 54.039 1.00 32.35	О
		ОН2 НОН Х		4.686 6.030 36.466 1.00 44.52	O
		OH2 HOH X		-0.309 104.932 109.683 1.00 43.95	0
ATOM	15287	OH2 HOH X	54	37.761 8.149 51.122 1.00 34.45	O
		он2 нон х		33.116 10.370 57.122 1.00 38.57	0
		он2 нон х		25.873 83.678 100.088 1.00 57.88	O
		он2 нон х		22.062 -4.925 44.017 1.00 68.59	Ο
		OH2 HOH X		5,594 0.015 62.950 1.00 33.01	O
		он2 нон х		21.344 0.929 49.329 1.00 35.86	0
		он2 нон х		23.011 80.836 97.026 1.00 44.93	О
		OH2 HOH X		38.255 9.351 53.248 1.00 38.17	0
		он2 нон х		3.401 9.718 42.821 1.00 32.45	0
		ОН2 НОН Х		54.581 10.732 50.027 1.00 36.65	0
		он2 нон х		18.363 1.123 39.091 1.00 35.93	0
		OH2 HOH X		39.035 16.456 71.109 1.00 34.41	0
		OH2 HOH X		19.864 12.477 50.045 1.00 35.67	Ō
_		OH2 HOH X		4.671 81.137 115.138 1.00 57.79	Ō
		OH2 HOH X		13.701 26.691 60.440 1.00 43.05	Ŏ
		он2 нон х		8.689 99.115 108.556 1.00 50.21	0
		OH2 HOH X		8.632 0.913 39.567 1.00 55.13	0
		OH2 HOH X		44.439 0.230 51.503 1.00 41.75	Ō
		OH2 HOH X		31.733 15.438 73.923 1.00 43.62	Ō
		он2 нон х		33.724 35.582 45.322 1.00 59.46	Ō
		OH2 HOH X		22.663 -5.001 74.941 1.00 48.52	Ō
		он2 нон х		15.244 79.241 122.471 1.00 33.27	0
		он2 нон х		-1.636 9.989 50.713 1.00 35.08	0
		он2 нон х		2.873 122.362 104.765 1.00 53.58	0
		он2 нон х		52.828 5.694 54.544 1.00 51.46	0
		OH2 HOH X		21.239 28.542 44.653 1.00 46.33	0
		он2 нон х		15.730 61.732 102.489 1.00 56.97	0
		он2 нон х		30.963 100.646 95.162 1.00 58.22	Ō
		он2 нон х		47.472 -0.901 51.679 1.00 71.44	0
		он2 нон х		14.125 61.063 100.439 1.00 69.04	0
		он2 нон х		29.954 16.118 56.622 1.00 31.88	0
		он2 нон х		48.226 19.437 66.814 1.00 59.42	O
		он2 нон х		34.195 5.437 65.636 1.00 49.75	0
		он2 нон х		17.214 94.595 120.054 1.00 44.08	0
		ОН2 НОН X		-1.485 26.765 48.129 1.00 47.47	0
		он2 нон х		43.065 31.378 62.592 1.00 44.61	0
		он2 нон х		21.758 15.965 46.909 1.00 48.82	0
		он2 нон х		52.344 29.369 43.701 1.00 54.42	0
_		он2 нон х		6.651 77.153 110.860 1.00 51.64	0
		он2 нон х		0.475 17.406 46.849 1.00 40.89	o
-		ОН2 НОН Х		50.234 25.863 52.532 1.00 65.87	0
-		он2 нон х		4.877 85.178 115.055 1.00 47.96	Ö
		он2 нон х		0.040 19.957 47.655 1.00 59.57	0
ATOM	15416	ОН2 НОН Х	97	27.106 32.993 66.183 1.00 36.27	0

			•	
ATOM	15419	OH2 HOH X 98	14.955 25.599 61.997 1.00 58.33	0
ATOM	15422	OH2 HOH X 99	38.131 8.445 58.231 1.00 35.80	0
ATOM	15425	OH2 HOH X 100	26.311 7.055 62.966 1.00 42.34	O
ATOM	15428	OH2 HOH X 101	-0.177 6.206 43.909 1.00 42.96	O
ATOM	15431	OH2 HOH X 102	35.146 74.240 103.309 1.00 64.14	O
		OH2 HOH X 103	30.052 5.476 40.804 1.00 60.77	0
		OH2 HOH X 104	10.184 12.725 34.015 1.00 51.28	O
		OH2 HOH X 105	50.966 22.574 48.701 1.00 42.22	Ö
		OH2 HOH X 106	2.828 11.507 41.214 1.00 52.52	Ö
		OH2 HOH X 107		ŏ
		OH2 HOH X 108	30.446 27.155 42.836 1.00 51.90	Ö
		OH2 HOH X 109	36.763 7.541 31.764 1.00 62.01	ŏ
		OH2 HOH X 110	13.380 98.632 108.720 1.00 37.74	o
		OH2 HOH X 111		o
		OH2 HOH X 111		o
				o
		OH2 HOH X 113		_
		OH2 HOH X 114		0
		OH2 HOH X 115		0
		OH2 HOH X 116	3.996 6.993 60.999 1.00 49.86	0
		OH2 HOH X 117	20.271 10.535 30.631 1.00 42.61	0
		OH2 HOH X 118	11.263 -9.614 71.116 1.00 42.90	0
		OH2 HOH X 119	-2.695 12.950 57.487 1.00 37.29	0
		OH2 HOH X 120	29.885 -23.535 52.934 1.00 77.91	О
		OH2 HOH X 121	-2.616 7.551 45.678 1.00 47.99	О
		OH2 HOH X 122	-2.824 10.741 58.817 1.00 42.09	О
ATOM	15494	OH2 HOH X 123	26.639 111.044 114.619 1.00 57.82	O
ATOM	15497	OH2 HOH X 124	16.140 88.966 97.087 1.00 57.17	O
ATOM	15500	OH2 HOH X 125	17.235 127.107 106.446 1.00 53.73	O
ATOM	15503	OH2 HOH X 126	21.952 2.395 44.236 1.00 42.93	О
ATOM	15506	OH2 HOH X 127	9.277 74.512 114.665 1.00 48.97	O
ATOM	15509	OH2 HOH X 128	17.683 78.291 123.117 1.00 48.65	О
ATOM	15512	OH2 HOH X 129	1.510 120.767 105.909 1.00 50.36	Ο
ATOM	15515	OH2 HOH X 130	43.242 6.582 58.231 1.00 62.99	O
		OH2 HOH X 131	15,242 61.390 105.392 1.00 59.52	O
ATOM	15521	OH2 HOH X 132	-7.813 16.881 54.110 1.00 54.24	O
		OH2 HOH X 133	39.761 32.790 49.685 1.00 50.24	O
		OH2 HOH X 134	5.502 102.442 113.079 1.00 54.03	Ō
		OH2 HOH X 135	5.245 83.800 107.181 1.00 56.11	o
		OH2 HOH X 136	9.888 -10.585 68.838 1.00 62.25	ŏ
		OH2 HOH X 137	18.053 89.757 110.269 1.00 57.84	ŏ
		OH2 HOH X 138	20.049 122.164 106.270 1.00 69.14	o
•		OH2 HOH X 138	2.434 9.115 59.663 1.00 48.87	o
		OH2 HOH X 140	29.074 7.062 34.979 1.00 61.08	0
		OH2 HOH X 141	15.999 19.969 68.679 1.00 61.08	
_		OH2 HOH X 141		0
			7.714 17.165 68.472 1.00 60.71	0
		OH2 HOH X 143	4.115 13.818 66.067 1.00 59.59	0
		OH2 HOH X 144	50.125 11.901 55.483 1.00 48.36	0
ATOM	12260	OH2 HOH X 145	14.393 30.385 44.476 1.00 57.65	О

ATOM 15563	OH2 HOH X 146	2.986 -16.653 58.015 1.00 54.32	О
ATOM 15566	OH2 HOH X 147	13.508 77.817 123.053 1.00 47.73	Ο
ATOM 15569	OH2 HOH X 148	30.902 -8.372 64.994 1.00 57.51	О
ATOM 15572	OH2 HOH X 149	21.360 40.987 59.280 1.00 61.05	Ο
ATOM 15575	OH2 HOH X 150	31.566 0.933 61.366 1.00 47.84	О
ATOM 15578	OH2 HOH X 151	25.717 98.206 123.290 1.00 56.66	Ο
ATOM 15581	OH2 HOH X 152	24.279 0.340 77.562 1.00 58.47	О
ATOM 15584	OH2 HOH X 153	47.547 -0.197 46.911 1.00 58.77	О
ATOM 15587	OH2 HOH X 154	13.581 28.505 62.736 1.00 55.78	Ο
ATOM 15590	OH2 HOH X 155	15.868 67.635 118.108 1.00 63.74	O
ATOM 15593	OH2 HOH X 156	6.738 99.064 109.444 1.00 66.64	О
ATOM 15596	OH2 HOH X 157	39.958 7.874 54.949 1.00 63.85	О
ATOM 15599	OH2 HOH X 158	7.403 91.557 109.576 1.00 55.77	О
ATOM 15602	OH2 HOH X 159	5.726 12.892 33.667 1.00 41.75	0
ATOM 15605	OH2 HOH X 160	28.386 37.421 67.590 1.00 50.20	О
ATOM 15608	OH2 HOH X 161	21.402 14.875 66.629 1.00 55.99	О
ATOM 15611	OH2 HOH X 162	48.282 7.498 59.343 1.00 64.22	О
ATOM 15614	OH2 HOH X 163	6.367 7.912 33.782 1.00 55.31	О
ATOM 15617	OH2 HOH X 164	22.722 62.779 126.079 1.00 56.29	О
ATOM 15620	OH2 HOH X 165	8.660 73.673 117.316 1.00 39.82	О
ATOM 15623	OH2 HOH X 166	39.448 1.815 50.281 1.00 52.32	O
ATOM 15626	OH2 HOH X 167	62.599 23.311 47.584 1.00 61.70	О
END			

REMARK THESE ATOMIC COORDINATES AND/OR STRUCTURE FACTORS ARE PROPRIETARY

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REMARK THEY ARE TO BE HELD IN CONFIDENCE AND ARE NOT TO BE USED FOR

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REMARK

TITLE HUMAN LXR BETA HORMONE RECEPTOR COMPLEXED WITH

TITLE 2 KB008444/T0901317 COMPLEX

REMARK

REMARK ATOMIC COORDINATES OF A CRYSTAL STRUCTURE

REMARK

REMARK DEPOSITOR: MATHIAS FARNEGARDH

(MATHIAS.FARNEGARDH@KAROBIO.SE)

REMARK DEPOSITION DATE 5-SEP-2002

REMARK

REMARK THE ATOMIC COORDINATES AND/OR STRUCTURE FACTORS IN THIS FILE ARE THE

REMARK EXPERIMENTAL RESULTS OF:

REMARK

REMARK MATHIAS FARNEGARDH, KARO BIO AB

REMARK NOVUM, 141 57 HUDDINGE, SWEDEN

REMARK

REMARK IMPORTANT NOTE ##############

REMARK THIS DATA WAS COLLECTED RAPIDLY ON AN HOME SOURCE (RIGAKU RU300)

REMARK TO DECREASE THE AMOUNT OF LIGAND SPLITTING THE RESOLUTION IS DUE TO

REMARK THIS ONLY 2.9 A. IN ORDER TO TAKE ADVANTAGE OF THE HIGH RESOLUTION

REMARK STRUCTURE OF THIS COMPLEX (WHERE THE LIGAND IS SPLIT BY XRAY RADIATION)

REMARK WAS THE HIGH RESOLUTION STRUCTURE lxrb_KB008444_split.pdb USED AS THE

REMARK STARTING MODEL FOR THIS REFINEMENT INCLUDING ALL THE WATERS.

REAMRK THE DIFFERENCES BETWEEN THE TWO STRUCTURES ARE ONLY LOCATED AT THE N-S

REMARK SPLITTING POINT OF THE LIGAND.

REMARK

REMARK THIS ENTRY CONTAINS THE COMPLETE CONTENT OF THE ASYMETRIC UNIT

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REMARK THAT COULD BE BUILT INTO INTERPRETABLE ELECTRON **DENSITIES** REMARK IT CONTAINS 4 INDEPENDENTLY REFINED PROTEIN MONOMERS REMARK CHAIN A 220-253, 261-458 REMARK A500 IS THE LIGAND REMARK CHAIN B 219-258, 261-458 (GLN219, LEU330 MODELLED AS ALA) REMARK B500 IS THE LIGAND REMARK CHAIN C 220-243, 248-254, 259-458 REMARK C500 IS THE LIGAND REMARK CHAIN D 220-242, 249-252, 260-329, 333-443, 448-458 REMARK (PHE329 MODELLED AS ALA) D500 IS THE LIGAND REMARK THE PROTEIN CRYSTALLIZED CONTAIN RESIDUES 213-461, THE **GAPS IN THE** REMARK STRUCTURE ARE DUE TO UNINTERPRETABLE ELECTRONDENSITIES IN THESE REMARK PARTICULAR REGIONS HEADER LXRB+KB008444/T0901317 05-SEP-02 XXXX COMPND MOL ID: 1; COMPND 2 MOLECULE: LIVER X RECEPTOR BETA; COMPND 3 CHAIN: A, B, C, D; COMPND 4 FRAGMENT: LIGAND BINDING DOMAIN; COMPND 5 SYNONYM: LXRB; REMARK 3 REMARK 3 REFINEMENT. REMARK 3 PROGRAM : REFMAC 5.1.19 REMARK 3 AUTHORS : MURSHUDOV, VAGIN, DODSON REMARK 3 REMARK 3 REFINEMENT TARGET: MAXIMUM LIKELIHOOD REMARK 3 REMARK 3 DATA USED IN REFINEMENT. REMARK 3 RESOLUTION RANGE HIGH (ANGSTROMS): 2.80 REMARK 3 RESOLUTION RANGE LOW (ANGSTROMS): 40.00 REMARK 3 DATA CUTOFF (SIGMA(F)): NONE REMARK 3 COMPLETENESS FOR RANGE (%): 99.91REMARK 3 NUMBER OF REFLECTIONS : 25718 REMARK 3 REMARK 3 FIT TO DATA USED IN REFINEMENT. REMARK 3 CROSS-VALIDATION METHOD : THROUGHOUT REMARK 3 FREE R VALUE TEST SET SELECTION: RANDOM REMARK 3 R VALUE (WORKING + TEST SET): 0.19861 (WORKING SET): 0.19526 REMARK 3 R VALUE REMARK 3 FREER VALUE : 0.26170 REMARK 3 FREE R VALUE TEST SET SIZE (%): 5.1 REMARK 3 FREE R VALUE TEST SET COUNT : 1381 REMARK 3 REMARK 3 FIT IN THE HIGHEST RESOLUTION BIN.

REMARK 3 TOTAL NUMBER OF BINS USED :

REMARK 3 BIN RESOLUTION RANGE HIGH

20 : 2.800 194

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REMARK 3 BIN RESOLUTION RANGE LOW : 2.872
REMARK 3 REFLECTION IN BIN (WORKING SET): 1831
REMARK 3 BIN R VALUE (WORKING SET): 0.279
REMARK 3 BIN FREE R VALUE SET COUNT : 100
REMARK 3 BIN FREE R VALUE : 0.348
REMARK 3
REMARK 3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
REMARK 3 ALL ATOMS : 7782
REMARK 3
REMARK 3 B VALUES.
REMARK 3 FROM WILSON PLOT (A**2): NULL
REMARK 3 MEAN B VALUE (OVERALL, A**2): 24.302
REMARK 3 OVERALL ANISOTROPIC B VALUE.
REMARK 3 B11 (A**2): 0.01
REMARK 3 B22 (A**2): 1.29
REMARK 3 B33 (A**2): -1.30
REMARK 3 B12 (A**2): 0.00
REMARK 3 B13 (A**2): 0.00
REMARK 3 B23 (A**2): 0.00
REMARK 3
REMARK 3 ESTIMATED OVERALL COORDINATE ERROR.
REMARK 3 ESU BASED ON R VALUE
                                         (A): NULL
REMARK 3 ESU BASED ON FREE R VALUE
                                            (A): 0.410
REMARK 3 ESU BASED ON MAXIMUM LIKELIHOOD
                                                 (A): 0.305
REMARK 3 ESU FOR B VALUES BASED ON MAXIMUM LIKELIHOOD (A**2):
15.914
REMARK 3
REMARK 3 CORRELATION COEFFICIENTS.
REMARK 3 CORRELATION COEFFICIENT FO-FC : 0.935
REMARK 3 CORRELATION COEFFICIENT FO-FC FREE: 0.892
REMARK 3
REMARK 3 RMS DEVIATIONS FROM IDEAL VALUES COUNT RMS
WEIGHT
REMARK 3 BOND LENGTHS REFINED ATOMS
                                        (A): 7745; 0.016; 0.022
REMARK 3 BOND LENGTHS OTHERS (A): 7177; 0.002; 0.020
REMARK 3 BOND ANGLES REFINED ATOMS (DEGREES): 10502; 1.490; 1.980
REMARK 3 BOND ANGLES OTHERS (DEGREES): 16631; 0.842; 3.000
REMARK 3 TORSION ANGLES, PERIOD 1 (DEGREES): 908; 5.804; 5.000
REMARK 3 CHIRAL-CENTER RESTRAINTS (A**3): 1189; 0.074; 0.200
REMARK 3 GENERAL PLANES REFINED ATOMS (A): 8385; 0.005; 0.020
                                     (A): 1612; 0.002; 0.020
REMARK 3 GENERAL PLANES OTHERS
REMARK 3 NON-BONDED CONTACTS REFINED ATOMS (A): 1833; 0.215;
0.200
REMARK 3 NON-BONDED CONTACTS OTHERS
                                         (A): 8222; 0.224; 0.200
REMARK 3 NON-BONDED TORSION OTHERS
                                       (A): 4710; 0.088; 0.200
REMARK 3 H-BOND (X...Y) REFINED ATOMS
                                      (A): 208; 0.180; 0.200
REMARK 3 SYMMETRY VDW REFINED ATOMS (A): 20; 0.205; 0.200
REMARK 3 SYMMETRY VDW OTHERS
                                     (A): 81; 0.243; 0.200
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REMARK 3 SYMMETRY H-BOND REFINED ATOMS
                                            (A): 11; 0.126; 0.200
REMARK 3
REMARK 3 ISOTROPIC THERMAL FACTOR RESTRAINTS. COUNT RMS
WEIGHT
REMARK 3 MAIN-CHAIN BOND REFINED ATOMS (A**2): 4613; 0.581; 1.500
REMARK 3 MAIN-CHAIN ANGLE REFINED ATOMS (A**2): 7458; 1.145; 2.000
REMARK 3 SIDE-CHAIN BOND REFINED ATOMS (A**2): 3132; 1.659; 3.000
REMARK 3 SIDE-CHAIN ANGLE REFINED ATOMS (A**2): 3044; 3.050; 4.500
REMARK 3
REMARK 3 NCS RESTRAINTS STATISTICS
REMARK 3 NUMBER OF NCS GROUPS: NULL
REMARK 3
REMARK 3
REMARK 3 TLS DETAILS
REMARK 3 NUMBER OF TLS GROUPS: NULL
REMARK 3
REMARK 3
REMARK 3 BULK SOLVENT MODELLING.
REMARK 3 METHOD USED: BABINET MODEL WITH MASK
REMARK 3 PARAMETERS FOR MASK CALCULATION
REMARK 3 VDW PROBE RADIUS: 1.40
REMARK 3 ION PROBE RADIUS: 0.80
REMARK 3 SHRINKAGE RADIUS: 0.80
REMARK 3
REMARK 3 OTHER REFINEMENT REMARKS:
REMARK 3 HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS
REMARK 3
LINK
         PRO A 253
                           ALA A 261
                                           gap
LINK
         PRO B 258
                           ALA B 261
                                           gap
LINK
         PHE C 243
                           LYS C 248
                                           gap
         ALA C 254
                           GLN C 259
LINK
                                           gap
                           VAL D 249
LINK
         SER D 242
                                           gap
LINK
         TRP D 252
                           ALA D 260
                                           gap
         ALA D 329
                           PHE D 333
LINK
                                           gap
         ARG D 443
                           LYS D 448
LINK
                                           gap
CRYST1 58.722 103.262 176.002 90.00 90.00 90.00 P 21 21 21
SCALE1 0.017029 0.000000 0.000000
                                  0.00000
SCALE2
        0.000000 0.009684 0.000000
                                  0.00000
SCALE3 0.000000 0.000000 0.005682
                                  0.00000
ATOM 1 N LEU A 220
                      5.857 8.165 59.175 1.00 15.68
                                                    N
ATOM
      3 CA LEU A 220 4.611 8.973 59.427 1.00 17.29
                                                     C
ATOM 5 CB LEU A 220
                        3.715 9.000 58.174 1.00 17.72
                                                     C
      8 CG LEU A 220 3.555 10.232 57.242 1.00 20.46
ATOM
                                                     C
ATOM 10 CD1 LEU A 220 2.059 10.393 56.770 1.00 21.48
                                                      C
ATOM 14 CD2 LEU A 220 4.105 11.593 57.820 1.00 21.78
                                                      C
      18 C LEU A 220
                       3.778 8.419 60.590 1.00 16.81
ATOM
                                                     C
ATOM 19 O LEU A 220
                        3.383 7.253 60.556 1.00 16.85
                                                     0
ATOM 22 N THR A 221 3.473 9.239 61.599 1.00 16.32
                                                     N
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ATOM	24 CA THR A 221	2.793 8.735 62.803 1.00 15.78	С
ATOM	26 CB THR A 221	3.025 9.631 64.051 1.00 15.47	C
ATOM	28 OG1 THR A 221	2.506 10.944 63.837 1.00 15.57	Ο
ATOM	30 CG2 THR A 221	4.477 9.849 64.317 1.00 15.58	C
ATOM	34 C THR A 221	1.310 8.607 62.597 1.00 15.91	С
ATOM	35 O THR A 221	0.751 9.250 61.717 1.00 16.20	Ο
ATOM	36 N ALA A 222	0.669 7.802 63.447 1.00 16.12	N
ATOM	38 CA ALA A 222	-0.792 7.607 63.422 1.00 15.82	C
ATOM	40 CB ALA A 222	-1.269 6.776 64.623 1.00 15.57	C
ATOM	44 C ALA A 222	-1.487 8.948 63.416 1.00 15.68	C
ATOM	45 O ALA A 222	-2.431 9.165 62.664 1.00 16.24	Ο
ATOM	46 N ALA A 223	-1.010 9.854 64.251 1.00 15.26	N
ATOM	48 CA ALA A 223	-1.606 11.168 64.343 1.00 15.26	C
ATOM	50 CB ALA A 223	-1.026 11.901 65.538 1.00 15.52	C
ATOM	54 C ALA A 223	-1.397 11.968 63.046 1.00 15.37	С
ATOM	55 O ALA A 223	-2.247 12.750 62.660 1.00 14.83	Ο
ATOM	56 N GLN A 224	-0.264 11.767 62.381 1.00 15.80	N
ATOM	58 CA GLN A 224	-0.005 12.423 61.108 1.00 16.16	C
ATOM	60 CB GLN A 224	1.479 12.350 60.734 1.00 16.24	C
ATOM	63 CG GLN A 224	2.383 13.329 61.487 1.00 15.36	C
ATOM	66 CD GLN A 224	3.857 13.076 61.233 1.00 13.69	C
ATOM	67 OE1 GLN A 224	4.276 11.933 61.080 1.00 11.58	О
ATOM	68 NE2 GLN A 224	4.642 14.144 61.171 1.00 12.35	N
ATOM	71 C GLN A 224	-0.856 11.847 59.987 1.00 16.83	C
ATOM	72 O GLN A 224	-1.344 12.586 59.155 1.00 17.50	Ο
ATOM	73 N GLU A 225	-1.044 10.541 59.944 1.00 17.54	N
ATOM	75 CA GLU A 225	-1.918 9.962 58.938 1.00 18.71	C
ATOM	77 CB GLU A 225	-1.919 8.421 58.996 1.00 19.80	C
ATOM	80 CG GLU A 225	-0.583 7.718 58.708 1.00 22.22	C
ATOM	83 CD GLU A 225	-0.739 6.189 58.646 1.00 27.82	C
ATOM	84 OE1 GLU A 225	-1.896 5.694 58.806 1.00 29.83	Ο
ATOM	85 OE2 GLU A 225	0.279 5.463 58.427 1.00 29.75	Ο
ATOM	86 C GLU A 225	-3.326 10.487 59.160 1.00 18.57	C
ATOM	87 O GLU A 225	-3.972 10.912 58.236 1.00 18.55	O
ATOM	88 N LEU A 226	-3.788 10.489 60.401 1.00 19.06	N
ATOM	90 CA LEU A 226	-5.087 11.076 60.747 1.00 19.53	C
ATOM	92 CB LEU A 226	-5.351 11.028 62.260 1.00 19.76	С
ATOM	95 CG LEU A 226	-6.612 11.759 62.761 1.00 19.44	C
ATOM	97 CD1 LEU A 226	-7.866 11.109 62.149 1.00 20.78	С
ATOM	101 CD2 LEU A 226	-6.676 11.739 64.269 1.00 18.94	C
ATOM	105 C LEU A 226	-5.283 12.516 60.326 1.00 19.84	С
ATOM	106 O LEU A 226	-6.391 12.892 59.964 1.00 20.69	О
ATOM	107 N MET A 227	-4.260 13.348 60.435 1.00 20.12	N
ATOM	109 CA MET A 227	-4.448 14.759 60.126 1.00 20.67	C
ATOM	111 CB MET A 227	-3.305 15.603 60.675 1.00 21.19	С
ATOM	114 CG MET A 227	-2.751 16.682 59.708 1.00 23.98	C
ATOM	117 SD MET A 227	-1.252 17.480 60.399 1.00 30.33	S
ATOM	118 CE MET A 227	-1.757 17.793 62.100 1.00 29.41	C

ATOM	122	C MET A 227	-4.578 14.927 58.616 1.00 20.11	С
ATOM	123	O MET A 227	-5.464 15.629 58.148 1.00 20.30	O
ATOM	124	N ILE A 228	-3.705 14.257 57.878 1.00 19.29	N
ATOM	126	CA ILE A 228	-3.665 14.351 56.445 1.00 19.09	С
ATOM	128	CB ILE A 228	-2.382 13.726 55.921 1.00 19.07	C
ATOM	130	CG1 ILE A 228	-1.179 14.615 56.251 1.00 19.28	С
ATOM	133	CD1 ILE A 228	0.158 13.963 55.932 1.00 19.23	С
ATOM	137	CG2 ILE A 228	-2.494 13.479 54.411 1.00 19.58	С
ATOM	141	C ILE A 228	-4.863 13.670 55.794 1.00 19.43	C
ATOM	142	O ILE A 228	-5.418 14.211 54.868 1.00 20.34	О
ATOM	143	N GLN A 229	-5.256 12.477 56.223 1.00 18.90	N
ATOM	145	CA GLN A 229	-6.478 11.882 55.706 1.00 18.96	C
ATOM	147	CB GLN A 229	-6.771 10.577 56.413 1.00 19.24	С
ATOM	150	CG GLN A 229	-6.067 9.435 55.768 1.00 21.27	C
ATOM	153	CD GLN A 229	-6.010 8.229 56.651 1.00 24.10	C
ATOM	154	OE1 GLN A 229	-6.948 7.971 57.423 1.00 25.47	О
MOTA	155	NE2 GLN A 229	-4.905 7.479 56.560 1.00 25.45	N
ATOM	158	C GLN A 229	-7.702 12.769 55.845 1.00 18.55	C
ATOM	159	O GLN A 229	-8.583 12.732 55.011 1.00 18.22	О
ATOM	160	N GLN A 230	-7.744 13.532 56.930 1.00 18.60	N
ATOM	162	CA GLN A 230	-8.860 14.389 57.301 1.00 18.80	С
ATOM	164	CB GLN A 230	-8.659 14.919 58.749 1.00 19.79	С
ATOM	167	CG GLN A 230	-9.251 16.327 59.108 1.00 21.29	C
ATOM	170	CD GLN A 230	-10.690 16.230 59.571 1.00 24.64	C
ATOM	171	OE1 GLN A 230	-11.138 15.164 59.996 1.00 25.60	О
ATOM	172	NE2 GLN A 230	-11.427 17.336 59.477 1.00 28.35	N
ATOM	175	C GLN A 230	-8.945 15.538 56.342 1.00 18.30	C
ATOM	176	O GLN A 230	-10.029 15.844 55.865 1.00 18.40	O
ATOM	177	N LEU A 231	-7.800 16.196 56.106 1.00 17.65	N
ATOM	179	CA LEU A 231	-7.691 17.326 55.185 1.00 17.02	С
ATOM	181	CB LEU A 231	-6.276 17.900 55.178 1.00 17.01	С
ATOM		CG LEU A 231		C
			-4.435 19.164 56.398 1.00 17.30	С
ATOM	190	CD2 LEU A 231	-6.815 19.591 56.908 1.00 18.68	С
ATOM	194	C LEU A 231	-8.079 16.910 53.787 1.00 16.54	С
ATOM		O LEU A 231	-8.848 17.571 53.144 1.00 16.65	О
ATOM		N VAL A 232	-7.589 15.776 53.337 1.00 16.28	N
		CA VAL A 232	-7.975 15.264 52.034 1.00 16.26	С
ATOM		CB VAL A 232	-7.091 14.080 51.598 1.00 16.22	С
ATOM			-7.585 13.491 50.281 1.00 15.39	С
=			-5.639 14.571 51.447 1.00 16.49	C
ATOM			-9.463 14.925 51.955 1.00 15.99	C
ATOM		O VAL A 232	-10.106 15.228 50.942 1.00 15.95	0
ATOM		N ALA A 233	-10.010 14.319 53.006 1.00 15.67	N
ATOM			-11.416 13.939 53.011 1.00 15.76	C
ATOM			-11.722 13.041 54.167 1.00 15.74	С
ATOM		C ALA A 233	-12.328 15.169 53.046 1.00 16.33	C
ATOM	221	O ALA A 233	-13.417 15.150 52.468 1.00 15.95	0

ATOM	222 N ALA A 234 -11.	893 16.231 53.720 1.00 16.96	N
ATOM	224 CA ALA A 234 -12	2.667 17.465 53.756 1.00 17.94	С
ATOM	226 CB ALA A 234 -12	2.205 18.373 54.910 1.00 18.20	С
ATOM	230 C ALA A 234 -12.	598 18.207 52.407 1.00 18.44	С
ATOM	231 O ALA A 234 -13.	595 18.714 51.965 1.00 18.63	0
ATOM	232 N GLN A 235 -11.	438 18.261 51.762 1.00 19.00	N
ATOM		.303 18.837 50.425 1.00 20.04	С
ATOM		.856 18.674 49.997 1.00 20.79	C
ATOM		.379 19.327 48.715 1.00 24.06	С
ATOM		.796 19.466 48.697 1.00 30.93	C
ATOM		7.021 18.452 48.747 1.00 31.11	0
ATOM		7.336 20.724 48.634 1.00 34.09	N
ATOM		213 18.115 49.435 1.00 19.95	С
ATOM -		927 18.720 48.655 1.00 19.27	0
ATOM		199 16.800 49.490 1.00 20.56	N
ATOM		3.036 16.017 48.616 1.00 21.32	C
ATOM		.757 14.522 48.786 1.00 21.67	C
ATOM		3.341 13,700 47.626 1.00 24.13	C
ATOM		2.335 13.718 46.450 1.00 25.57	С
ATOM		3.777 12.237 48.015 1.00 25.18	С
ATOM		518 16.309 48.845 1.00 21.68	C
ATOM		252 16.390 47.872 1.00 22.07	0
ATOM		958 16.451 50.105 1.00 21.96	N
ATOM		5.373 16.687 50.431 1.00 22.24	C
ATOM		5.683 16.470 51.923 1.00 22.91	C
ATOM		5.664 14.997 52.379 1.00 26.71	C
ATOM		5.470 14.773 53.913 1.00 30.99	C
ATOM		6.674 13.640 54.381 1.00 33.33	0
ATOM		6.075 15.829 54.678 1.00 31.61	N
ATOM		746 18.097 50.095 1.00 21.57	С
ATOM		875 18.381 49.779 1.00 21.64	0
ATOM		803 19.001 50.189 1.00 21.37	N
ATOM		5.106 20.382 49.933 1.00 21.90	C
ATOM		9.933 21.268 50.319 1.00 22.20	C
ATOM		.030 21.765 52.027 1.00 21.86	S
ATOM		385 20.508 48.468 1.00 22.29	С
ATOM		288 21.221 48.050 1.00 21.90	0
ATOM		590 19.792 47.691 1.00 22.98	N
ATOM		5.691 19.869 46.261 1.00 23.73	C
ATOM		1.463 19.232 45.582 1.00 24.05	С
ATOM		1.287 19.708 44.128 1.00 25.70	С
ATOM		4.637 18.983 43.188 1.00 27.70	O
ATOM		3.789 20.943 43.945 1.00 27.04	N
ATOM		009 19.263 45.802 1.00 23.69	C
ATOM		703 19.853 44.986 1.00 24.39	Ō
ATOM		364 18.107 46.354 1.00 23.59	Ň
ATOM		3.609 17.421 46.030 1.00 23.52	C
ATOM		3.719 16.127 46.843 1.00 23.44	Č

ATOM	316 CG LYS A 240 -19.9	950 15.300 46.541 1.00 24.05	C
ATOM	319 CD LYS A 240 -19.7	746 13.876 46.958 1.00 25.71	С
ATOM		932 13.010 46.622 1.00 26.90	С
ATOM	325 NZ LYS A 240 -21.5	540 12.446 47.847 1.00 27.75	N
ATOM	329 C LYS A 240 -19.79	99 18.308 46.338 1.00 23.67	С
ATOM	330 O LYS A 240 -20.73	31 18.394 45.562 1.00 23.66	Ο
ATOM	331 N ARG A 241 -19.7	40 18.962 47.490 1.00 24.06	N
ATOM	333 CA ARG A 241 -20.	796 19.842 47.995 1.00 24.47	С
ATOM	335 CB ARG A 241 -20.	450 20.278 49.431 1.00 24.96	С
ATOM	338 CG ARG A 241 -21.	613 20.328 50.388 1.00 25.97	С
ATOM	341 CD ARG A 241 -21.	267 20.916 51.747 1.00 27.73	С
ATOM	344 NE ARG A 241 -22.	165 22.017 52.101 1.00 28.90	N
ATOM	346 CZ ARG A 241 -23.	486 21.893 52.299 1.00 30.39	С
ATOM		1.108 20.712 52.181 1.00 29.33	N
ATOM	350 NH2 ARG A 241 -24	1.200 22.966 52.626 1.00 32.01	N
ATOM		077 21.097 47.158 1.00 24.33	С
ATOM	354 O ARG A 241 -22.0	088 21.443 46.784 1.00 23.85	O
ATOM	355 N SER A 242 -19.8°	70 21.774 46.881 1.00 24.71	N
ATOM	357 CA SER A 242 -19.8	893 23.054 46.200 1.00 25.36	C
ATOM	359 CB SER A 242 -18.6	654 23.864 46.556 1.00 25.33	С
ATOM	362 OG SER A 242 -18.6	673 24.276 47.912 1.00 26.26	0
ATOM	364 C SER A 242 -19.99	96 22.949 44.688 1.00 26.01	C
ATOM	365 O SER A 242 -20.46	68 23.892 44.059 1.00 26.36	О
ATOM	366 N PHE A 243 -19.5	77 21.818 44.109 1.00 26.84	N
ATOM	368 CA PHE A 243 -19.3	363 21.702 42.654 1.00 27.40	С
ATOM	370 CB PHE A 243 -17.8	893 21.962 42.281 1.00 27.57	C
ATOM	373 CG PHE A 243 -17.4	476 23.401 42.388 1.00 28.48	C
ATOM	374 CD1 PHE A 243 -16.	.406 23.768 43.192 1.00 30.26	C
ATOM	376 CE1 PHE A 243 -16.	017 25.108 43.293 1.00 31.11	С
ATOM	378 CZ PHE A 243 -16.6	693 26.079 42.573 1.00 32.32	С
ATOM		761 25.717 41.751 1.00 30.72	C
ATOM	382 CD2 PHE A 243 -18.	.138 24.386 41.669 1.00 30.00	С
ATOM	384 C PHE A 243 -19.74	44 20.350 42.078 1.00 27.70	C
ATOM	385 O PHE A 243 -19.0	65 19.865 41.173 1.00 28.04	Ο
ATOM	386 N SER A 244 -20.8	10 19.740 42.593 1.00 27.94	N
ATOM	388 CA SER A 244 -21.3	388 18.561 41.956 1.00 27.89	С
ATOM	390 CB SER A 244 -22.0	038 17.617 42.969 1.00 27.93	C
ATOM	393 OG SER A 244 -21.	132 16.641 43.439 1.00 27.71	О
ATOM	395 C SER A 244 -22.44	40 19.069 41.004 1.00 28.11	C
ATOM	396 O SER A 244 -22.39	98 18.799 39.810 1.00 28.08	O
ATOM	397 N ASP A 245 -23.39	90 19.814 41.554 1.00 28.48	N
ATOM	399 CA ASP A 245 -24.4	489 20.374 40.772 1.00 28.58	C
ATOM	401 CB ASP A 245 -25.6	670 20.703 41.695 1.00 28.69	С
ATOM	404 CG ASP A 245 -26.3	367 19.446 42.218 1.00 29.20	С
ATOM	405 OD1 ASP A 245 -27.	.256 18.917 41.510 1.00 29.63	Ο
ATOM	406 OD2 ASP A 245 -26.	.089 18.909 43.312 1.00 29.52	О
ATOM	407 C ASP A 245 -24.03	38 21.605 39.973 1.00 28.43	C
ATOM	408 O ASP A 245 -22.9	85 22.187 40.235 1.00 28.14	O

ATOM	409 N GLN A 246 -24	4.833 21.973 38.976 1.00 28.73	N
ATOM	411 CA GLN A 246 -2	24.511 23.105 38.107 1.00 28.73	С
ATOM		25.515 23.249 36.951 1.00 28.69	C
ATOM		25.610 22.033 36.023 1.00 28.33	Ċ
ATOM		24.579 22.068 34.924 1.00 27.89	Č
ATOM		24.870 22.489 33.813 1.00 28.50	Ö
ATOM		23.371 21.640 35.231 1.00 27.73	N
ATOM		4.553 24.338 38.970 1.00 28.78	c
ATOM		5.427 24.478 39.811 1.00 28.84	Ö
ATOM		3.599 25.231 38.798 1.00 29.14	N
ATOM	/ - · · · · · · · · · · · · · · · · ·	23.559 26.416 39.647 1.00 29.46	C
ATOM		2.168 27.006 39.357 1.00 29.77	Č
ATOM		1.788 26.494 37.996 1.00 29.30	C
ATOM		22.499 25.198 37.818 1.00 29.08	C
ATOM		1.706 27.351 39.273 1.00 29.76	C
		5.155 27.321 38.121 1.00 30.08	0
ATOM		5.215 28.119 40.234 1.00 30.00	N
ATOM		6.221 29.139 39.937 1.00 30.26	C
ATOM			C
ATOM		7.101 29.417 41.162 1.00 30.54	C
ATOM		7.941 28.210 41.639 1.00 31.56	
ATOM		9.123 28.610 42.571 1.00 32.74	C
ATOM		0.244 27.556 42.530 1.00 33.52	C
ATOM		1.375 27.849 43.451 1.00 33.69	N
ATOM		.450 30.386 39.495 1.00 30.08	C
ATOM		1.799 31.051 40.310 1.00 30.32	0
ATOM		5.448 30.660 38.193 1.00 29.61	N
ATOM		24.593 31.712 37.651 1.00 29.25	C
ATOM		23.202 31.196 37.179 1.00 29.50	С
ATOM		22.100 32.141 37.639 1.00 30.10	С
ATOM		22.892 29.825 37.697 1.00 29.90	C
ATOM		5.223 32.380 36.464 1.00 28.77	C
ATOM		5.831 31.723 35.622 1.00 29.22	О
ATOM	478 N THR A 250 -25	5.075 33.699 36.407 1.00 28.20	N
ATOM	480 CA THR A 250 -2	25.410 34.463 35.222 1.00 27.53	С
ATOM	482 CB THR A 250 -2	4.740 35.840 35.274 1.00 27.36	С
ATOM	484 OG1 THR A 250 -	25.260 36.595 36.371 1.00 26.90	О
ATOM	486 CG2 THR A 250 -	25.106 36.681 34.074 1.00 27.81	C
ATOM	490 C THR A 250 -24	1.870 33.663 34.057 1.00 27.36	С
ATOM	491 O THR A 250 -23	3.683 33.365 34.035 1.00 26.84	Ο
ATOM	492 N PRO A 251 -25	5.737 33.270 33.121 1.00 27.46	N
ATOM	493 CA PRO A 251 -2	25.312 32.536 31.920 1.00 27.22	С
ATOM	495 CB PRO A 251 -2	6.579 32.520 31.054 1.00 27.39	C
ATOM		27.719 32.783 31.974 1.00 27.38	С
ATOM		27.194 33.507 33.148 1.00 27.33	C
ATOM		1.175 33.238 31.155 1.00 27.16	C
ATOM		1.321 34.425 30.816 1.00 26.96	Ó
ATOM		.076 32.518 30.892 1.00 27.01	N
ATOM		1.942 33.047 30.113 1.00 26.96	C
	200 011 114 11402 2	1.5 55.5 21.4.5 1.00 20.70	-

ATOM	510 CB TRP A 252	-20.742 32.086 30.209 1.00 27.01	С
ATOM	513 CG TRP A 252	-19.466 32.589 29.544 1.00 27.07	С
ATOM	514 CD1 TRP A 252	-19.056 32.336 28.274 1.00 27.45	С
ATOM	516 NE1 TRP A 252	-17.856 32.956 28.023 1.00 27.64	N
ATOM	518 CE2 TRP A 252	-17.464 33.628 29.147 1.00 27.28	С
ATOM	519 CD2 TRP A 252	-18.451 33.412 30.128 1.00 27.12	C
ATOM	520 CE3 TRP A 252	-18.274 33.994 31.386 1.00 26.88	С
ATOM	522 CZ3 TRP A 252	-17.149 34.752 31.625 1.00 26.34	С
ATOM	524 CH2 TRP A 252	-16.190 34.951 30.630 1.00 27.03	C
ATOM	526 CZ2 TRP A 252	-16.328 34.397 29.383 1.00 27.06	C
ATOM	528 C TRP A 252 -	22.364 33.291 28.641 1.00 27.00	C
ATOM	529 O TRP A 252 -	22.650 32.340 27.914 1.00 26.88	0
ATOM	530 N PRO A 253	-22.413 34.552 28.207 1.00 27.02	N
ATOM		-23.075 34.923 26.944 1.00 27.13	С
ATOM	533 CB PRO A 253	-22.633 36.369 26.740 1.00 26.99	C
ATOM	536 CG PRO A 253	-22.425 36.862 28.122 1.00 27.20	С
ATOM	539 CD PRO A 253	-21.846 35.730 28.887 1.00 26.96	C
ATOM	542 C PRO A 253	-22.783 34.037 25.707 1.00 27.29	C
ATOM	543 O PRO A 253 ·	-21.842 34.201 24.927 1.00 27.33	0
ATOM	544 N ALA A 261	-21.033 46.340 25.423 1.00 34.78	N
ATOM	546 CA ALA A 261	-21.278 46.695 26.824 1.00 34.81	C
ATOM	548 CB ALA A 261	-21.883 48.098 26.916 1.00 34.71	C
ATOM		-22.192 45.678 27.518 1.00 34.78	C
ATOM		-22.029 45.385 28.711 1.00 34.60	0
ATOM		-23.157 45.159 26.758 1.00 34.77	N
ATOM	556 CA ASP A 262	-24.179 44.243 27.275 1.00 34.61	С
ATOM		-24.954 43.597 26.105 1.00 34.57	C
ATOM		-25.879 44.587 25.373 1.00 34.47	С
ATOM		-25.775 45.805 25.617 1.00 34.39	0
ATOM		-26.744 44.240 24.536 1.00 33.23	О
ATOM	564 C ASP A 262 -	23.557 43.156 28.157 1.00 34.44	С
ATOM		-23.923 43.001 29.321 1.00 34.35	0
ATOM		-22.580 42.450 27.588 1.00 34.23	N
ATOM	568 CA ALA A 263	-21.996 41.235 28.170 1.00 33.99	C
ATOM	570 CB ALA A 263	-21.838 40.178 27.079 1.00 34.09	С
ATOM		-20,650 41.464 28.862 1.00 33.70	С
ATOM		-19.984 40.498 29.269 1.00 33.64	0
ATOM		-20.243 42.737 28.941 1.00 33.29	N
ATOM	578 CA ARG A 264	-19.097 43.178 29.743 1.00 32.67	С
ATOM	580 CB ARG A 264	-18.804 44.674 29.510 1.00 32.96	C
ATOM	583 CG ARG A 264	-17.716 44.953 28.482 1.00 34.81	C
ATOM	586 CD ARG A 264	-16.292 44.666 29.000 1.00 37.32	Č
ATOM	589 NE ARG A 264	-15.342 44.361 27.918 1.00 39.57	N
ATOM	591 CZ ARG A 264	-14.061 44.011 28.100 1.00 40.37	C
ATOM	592 NH1 ARG A 264	-13.558 43.920 29.324 1.00 41.07	N
ATOM	595 NH2 ARG A 264	-13.278 43.754 27.055 1.00 40.24	N
ATOM		-19.434 42.929 31.210 1.00 31.60	c
ATOM	599 O ARG A 264	-18.705 42.225 31.911 1.00 31.31	ŏ
7 7 7 O 141	555 C 111011201	TO1100 151mmc 0 217 1 1100 0 2101	~

ATOM	600 N GLN A 265 -20.561 43.501 31.648 1.00 30.27	N
ATOM	602 CA GLN A 265 -21.079 43.287 32.999 1.00 29.10	С
ATOM	604 CB GLN A 265 -22.249 44.239 33.319 1.00 28.98	Č
ATOM	607 CG GLN A 265 -21.818 45.574 33.976 1.00 29.73	Č
ATOM	610 CD GLN A 265 -22.270 46.818 33.191 1.00 30.32	Č
ATOM	611 OE1 GLN A 265 -22.950 47.694 33.738 1.00 30.04	Ō
ATOM	612 NE2 GLN A 265 -21.885 46.895 31.917 1.00 30.05	N
ATOM	615 C GLN A 265 -21.499 41.839 33.219 1.00 27.75	C
ATOM	616 O GLN A 265 -21.334 41.328 34.314 1.00 27.82	Ö
ATOM	617 N GLN A 266 -22.022 41.181 32.187 1.00 26.21	N
ATOM	619 CA GLN A 266 -22.527 39.808 32.321 1.00 24.92	C
ATOM	621 CB GLN A 266 -23.344 39.381 31.094 1.00 24.75	Č
ATOM	624 CG GLN A 266 -24.787 38.953 31.377 1.00 24.16	C
ATOM	627 CD GLN A 266 -25.723 39.314 30.227 1.00 23.84	C
ATOM	628 OE1 GLN A 266 -26.764 39.936 30.434 1.00 23.51	O
ATOM	629 NE2 GLN A 266 -25.338 38.943 29.011 1.00 23.56	N
ATOM	632 C GLN A 266 -21.408 38.795 32.554 1.00 24.04	C
ATOM	633 O GLN A 266 -21.592 37.849 33.317 1.00 23.90	O
ATOM	634 N ARG A 267 -20.260 38.978 31.902 1.00 22.85	N
ATOM	636 CA ARG A 267 -19.143 38.031 32.058 1.00 21.84	C
ATOM	638 CB ARG A 267 -18.154 38.137 30.883 1.00 21.71	C
ATOM	641 CG ARG A 267 -18.580 37.268 29.730 1.00 22.50	C
ATOM	644 CD ARG A 267 -17.832 37.435 28.429 1.00 23.45	C
ATOM	647 NE ARG A 267 -18.674 36.954 27.323 1.00 24.84	N
ATOM	649 CZ ARG A 267 -18.259 36.692 26.082 1.00 24.64	C
ATOM	650 NH1 ARG A 267 -16.991 36.857 25.733 1.00 25.31	
ATOM	653 NH2 ARG A 267 -10.991 30.837 25.733 1.00 23.31	N
	656 C ARG A 267 -18.457 38.232 33.414 1.00 20.83	N C
ATOM	657 O ARG A 267 -18.025 37.274 34.054 1.00 20.47	
ATOM		0
ATOM		N
ATOM	660 CA PHE A 268 -17.848 39.907 35.117 1.00 19.08	C
ATOM	662 CB PHE A 268 -17.861 41.432 35.225 1.00 18.83	C
ATOM		C
ATOM	666 CD1 PHE A 268 -16.099 41.692 36.977 1.00 16.96 668 CE1 PHE A 268 -15.656 42.174 38.208 1.00 17.27	C
ATOM		C
ATOM	670 CZ PHE A 268 -16.507 42.916 39.016 1.00 16.82	C
ATOM	672 CE2 PHE A 268 -17.794 43.173 38.594 1.00 16.87	C
ATOM	674 CD2 PHE A 268 -18.226 42.700 37.361 1.00 17.26	C
ATOM	676 C PHE A 268 -18.686 39.310 36.236 1.00 18.75	C
ATOM	677 O PHE A 268 -18.159 38.688 37.151 1.00 18.48	0
ATOM	678 N ALA A 269 -19.995 39.514 36.140 1.00 18.26	N
ATOM	680 CA ALA A 269 -20.941 39.054 37.143 1.00 17.83	C
ATOM	682 CB ALA A 269 -22.374 39.366 36.714 1.00 17.76	C
ATOM	686 C ALA A 269 -20.761 37.573 37.317 1.00 17.28	C
ATOM	687 O ALA A 269 -20.662 37.099 38.446 1.00 17.23	0
ATOM	688 N HIS A 270 -20.725 36.876 36.178 1.00 16.61	N
ATOM	690 CA HIS A 270 -20.439 35.456 36.091 1.00 16.26	C
ATOM	692 CB HIS A 270 -20.251 35.037 34.611 1.00 16.45	С

ATOM	695	CG HIS A 270	-20.072 33.561 34.411 1.00 17.07	С
ATOM	696	ND1 HIS A 270	-21.112 32.667 34.498 1.00 17.46	N
ATOM	698	CE1 HIS A 270	-20.659 31.441 34.305 1.00 18.13	C
ATOM	700	NE2 HIS A 270	-19.363 31.508 34.081 1.00 17.84	N
ATOM	702	CD2 HIS A 270	-18.968 32.820 34.155 1.00 18.32	С
ATOM	704	C HIS A 270 -1	19.196 35.150 36.913 1.00 16.12	C
ATOM	705	O HIS A 270 -	19.222 34.259 37.760 1.00 16.15	0
ATOM	706	N PHE A 271 -	-18.115 35.907 36.692 1.00 15.98	N
ATOM	708	CA PHE A 271	-16.840 35.675 37.409 1.00 15.49	C
ATOM	710	CB PHE A 271	-15.728 36.586 36.903 1.00 15.33	C
ATOM	713	CG PHE A 271	-14.844 35.923 35.908 1.00 17.14	C
ATOM	714	CD1 PHE A 271	-15.387 35.182 34.871 1.00 18.69	C
ATOM	716	CE1 PHE A 271	-14.575 34.551 33.944 1.00 19.99	C
ATOM	718	CZ PHE A 271	-13.211 34.646 34.048 1.00 19.96	C
ATOM	720	CE2 PHE A 271	-12.655 35.384 35.069 1.00 19.86	C
ATOM	722	CD2 PHE A 271	-13.473 36.015 36.005 1.00 19.16	С
ATOM	724	C PHE A 271 -	17.003 35.845 38.882 1.00 14.62	C
ATOM	725	O PHE A 271	-16.527 35.052 39.664 1.00 14.92	0
ATOM	726	N THR A 272	-17.732 36.882 39.229 1.00 14.01	N
ATOM	728	CA THR A 272	-18.029 37.264 40.588 1.00 13.51	С
ATOM	730	CB THR A 272	-18.697 38.673 40.511 1.00 13.40	C
ATOM	732	OG1 THR A 272	-17.981 39.587 41.346 1.00 13.64	0
ATOM	734	CG2 THR A 272	-20.135 38.717 40.981 1.00 12.87	C
ATOM	738	C THR A 272	-18.860 36.204 41.357 1.00 13.68	C
ATOM	739	O THR A 272	-18.763 36.074 42.579 1.00 12.27	0
ATOM	740	N GLU A 273	-19.649 35.430 40.620 1.00 14.33	N
ATOM	742	CA GLU A 273	-20.560 34.461 41.208 1.00 14.96	C
ATOM	744	CB GLU A 273	-21.823 34.347 40.363 1.00 15.07	C
ATOM	747	CG GLU A 273	-22.783 35.506 40.595 1.00 15.71	C
ATOM	750	CD GLU A 273	-23.552 35.917 39.347 1.00 18.47	C
ATOM	751	OE1 GLU A 273	-23.420 35.236 38.305 1.00 19.72	0
ATOM	752	OE2 GLU A 273	-24.295 36.930 39.403 1.00 19.58	O
ATOM	753	C GLU A 273	-19.881 33.115 41.402 1.00 15.28	C
ATOM	754	O GLU A 273	-20.162 32.411 42.365 1.00 15.66	Ο
ATOM	755	N LEU A 274	-18.983 32.768 40.489 1.00 15.69	N
ATOM	757	CA LEU A 274	-17.993 31.720 40.735 1.00 15.82	C
ATOM	.759	CB LEU A 274	-17.112 31.523 39.513 1.00 16.11	С
ATOM	762	CG LEU A 274	-17.893 30.959 38.341 1.00 18.50	C
ATOM	764	CD1 LEU A 274	-17.141 31.090 37.003 1.00 19.08	C
ATOM	768	CD2 LEU A 274	-18.223 29.519 38.650 1.00 21.07	C
ATOM	772	C LEU A 274 -	-17.091 32.061 41.908 1.00 15.27	C
ATOM	773	O LEU A 274	-16.855 31.224 42.747 1.00 15.73	0
ATOM	774	N ALA A 275	-16.573 33.284 41.979 1.00 14.95	N
ATOM	776	CA ALA A 275	-15.706 33.668 43.100 1.00 14.65	С
ATOM	778	CB ALA A 275	-15.273 35.105 42.943 1.00 14.60	C
ATOM	782	C ALA A 275	-16.386 33.425 44.467 1.00 14.65	С
ATOM	783	O ALA A 275	-15.787 32.880 45.379 1.00 14.90	0
ATOM	784	N ILE A 276 -	17.665 33.781 44.557 1.00 14.61	N

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-18.473 33.595 45.739 1.00 14.40 C ATOM 786 CA ILE A 276 -19.853 34.224 45.515 1.00 14.07 **ATOM** 788 CB ILE A 276 C -19.752 35.730 45.719 1.00 12.92 **ATOM** 790 CG1 ILE A 276 C -20.838 36.515 45.086 1.00 10.99 ATOM 793 CD1 ILE A 276 C -20.885 33.637 46.457 1.00 14.11 ATOM 797 CG2 ILE A 276 C -18.635 32.128 46.065 1.00 15.52 ATOM 801 C ILE A 276 C -18.594 31.743 47.217 1.00 16.10 802 O ILE A 276 O ATOM ATOM 803 N ILE A 277 -18.884 31.289 45.074 1.00 16.37 N 805 CA ILE A 277 -19.072 29.884 45.395 1.00 16.51 ATOM C -19.605 29.069 44.188 1.00 16.40 ATOM 807 CB ILE A 277 C -21.009 29.557 43.805 1.00 15.48 C ATOM 809 CG1 ILE A 277 812 CD1 ILE A 277 -21.503 29.085 42.436 1.00 14.84 C ATOM ATOM 816 CG2 ILE A 277 -19.615 27.543 44.502 1.00 16.15 C ATOM 820 C ILE A 277 -17.741 29.352 45.943 1.00 17.07 C -17.775 28.554 46.868 1.00 17.29 ATOM 821 O ILE A 277 0 822 N SER A 278 -16.588 29.809 45.424 1.00 17.53 ATOM N -15.276 29.328 45.935 1.00 18.29 ATOM 824 CA SER A 278 C -14.080 29.758 45.095 1.00 18.13 C ATOM 826 CB SER A 278 ATOM 829 OG SER A 278 -14.033 29.048 43.876 1.00 19.28 0 -15.047 29.819 47.331 1.00 18.69 831 C SER A 278 ATOM C -14.555 29.088 48.162 1.00 19.53 ATOM 832 O SER A 278 0 ATOM 833 N VAL A 279 -15.425 31.061 47.599 1.00 18.86 N ATOM 835 CA VAL A 279 -15.327 31.582 48.943 1.00 18.40 \mathbf{C} 837 CB VAL A 279 -15.826 33.007 49.018 1.00 18.28 ATOM -15.875 33.460 50.457 1.00 18.92 ATOM 839 CG1 VAL A 279 C -14.915 33.940 48.179 1.00 18.55 843 CG2 VAL A 279 C ATOM ATOM 847 C VAL A 279 -16.101 30.691 49.899 1.00 18.11 C 848 O VAL A 279 -15.637 30.422 50.989 1.00 18.34 ATOM 0 -17.260 30.206 49.488 1.00 18.45 ATOM 849 N GLN A 280 N ATOM 851 CA GLN A 280 -18.096 29.360 50.355 1.00 19.16 C 853 CB GLN A 280 -19.481 29.137 49.735 1.00 19.21 ATOM -20.395 28.181 50.530 1.00 19.68 856 CG GLN A 280 C ATOM ATOM 859 CD GLN A 280 -21.736 27.882 49.845 1.00 19.43 860 OE1 GLN A 280 -21.832 27.889 48.617 1.00 20.07 0 ATOM ATOM 861 NE2 GLN A 280 -22.768 27.626 50.647 1.00 18.11 N -17.412 28.008 50.613 1.00 19.69 ATOM 864 C GLN A 280 C 865 O GLN A 280 -17.382 27.501 51.752 1.00 19.08 ATOM 0 866 N GLU A 281 -16.850 27.451 49.540 1.00 20.23 N ATOM 868 CA GLU A 281 -16.128 26.191 49.597 1.00 20.69 ATOM C 870 CB GLU A 281 -15.652 25.802 48.195 1.00 21.17 ATOM 873 CG GLU A 281 -15.182 24.352 48.059 1.00 23.43 ATOM 876 CD GLU A 281 -14.489 24.077 46.741 1.00 25.24 C ATOM 877 OE1 GLU A 281 -14.400 25.003 45.920 1.00 27.50 ATOM 0 ATOM 878 OE2 GLU A 281 -14.043 22.939 46.515 1.00 26.24 0 ATOM 879 C GLU A 281 -14.947 26.286 50.569 1.00 20.27 C -14.722 25.383 51.381 1.00 19.17 880 O GLU A 281 0 ATOM ATOM 881 N ILE A 282 -14.227 27.401 50.493 1.00 20.70 N 883 CA ILE A 282 -13.020 27.618 51.279 1.00 21.12 C ATOM

ATOM	885 CB ILE	A 282 -1	2.241	28.824	50.743	1.00 21.29	С
ATOM	887 CG1 ILE	E A 282 -	11.674	28.506	49.374	1.00 22.06	С
ATOM	890 CD1 ILE	E A 282 -	11.200	29.748	48.677	1.00 24.25	C
ATOM	894 CG2 ILE	E A 282 -	11.072	29.220	51.666	1.00 21.70	C
ATOM	898 C ILE A	A 282 -13	3.399 2	27.807 5	2.735 1.	.00 21.18	С
ATOM	899 O ILE A	4 282 -12	2.773	27.260 5	3.634 1	.00 20.38	Ο
ATOM	900 N VAL						N
ATOM	902 CA VA						С
ATOM	904 CB VAI						C
ATOM	906 CG1 VA						C
ATOM	910 CG2 VA						С
ATOM	914 C VAL					1.00 22.99	С
ATOM	915 O VAL					1.00 23.43	0
ATOM	916 N ASP						N
ATOM	918 CA ASI						C
ATOM	920 CB ASI					1.00 24.56	Č
ATOM	923 CG ASI					1.00 27.94	Ċ
ATOM	924 OD1 AS						0
ATOM	925 OD2 AS						Ō
ATOM	926 C ASP					1.00 22.67	C
ATOM	927 O ASP	=				1.00 22.99	Ō
ATOM	928 N PHE					1.00 21.73	N
ATOM	930 CA PHI						C
ATOM	932 CB PHE					1.00 20.37	Ċ
ATOM	935 CG PHI					1.00 18.40	C
ATOM	936 CD1 PH					1.00 19.63	C
ATOM	938 CE1 PH					1.00 18.18	С
ATOM	940 CZ PHE					1.00 17.14	С
ATOM	942 CE2 PH						С
ATOM	944 CD2 PH						С
ATOM	946 C PHE					1.00 21.65	С
ATOM	947 O PHE	A 285 -	11.761	23.414	56.515	1.00 21.74	Ο
	948 N ALA	A 286 -	12.111	25.519	55.831	1.00 22.24	N
	950 CA AL						С
ATOM	952 CB ALA					1.00 22.09	С
ATOM	956 C ALA					1.00 22.99	С
ATOM	957 O ALA					1.00 22.63	0
ATOM	958 N LYS		13.285	25.499	58.258	1.00 23.62	N
ATOM	960 CA LYS		-14.022	25.133	59.438	1.00 24.58	С
ATOM	962 CB LYS	S A 287 -	-15.534	25.200	59.161	1.00 25.41	С
ATOM	965 CG LYS					1.00 27.79	С
ATOM	968 CD LYS					1.00 30.45	С
ATOM	971 CE LYS					1.00 30.44	С
ATOM	974 NZ LYS					1.00 31.17	N
ATOM	978 C LYS					1.00 24.06	C
ATOM	979 O LYS					1.00 24.69	O
ATOM	980 N GLN					1.00 23.67	N
ATOM	982 CA GLI					1.00 23.33	С

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-13.479 20.618 58.132 1.00 23.55 ATOM 984 CB GLN A 288 C ATOM 987 CG GLN A 288 -14.961 20.346 58.204 1.00 26.24 C ATOM 990 CD GLN A 288 -15.538 19.977 56.851 1.00 29.73 C ATOM 991 OE1 GLN A 288 -15.784 18.803 56.568 1.00 33.37 0 -15.745 20.979 56.006 1.00 30.98 ATOM 992 NE2 GLN A 288 N ATOM 995 C GLN A 288 -11.481 21.247 59.461 1.00 22.42 C ATOM 996 O GLN A 288 -11.075 20.112 59.681 1.00 22.22 0 -10.666 22.291 59.372 1.00 21.47 ATOM 997 N VAL A 289 N ATOM 999 CA VAL A 289 -9.236 22.147 59.624 1.00 21.01 C ATOM 1001 CB VAL A 289 -8.420 23.258 58.923 1.00 20.55 \mathbf{C} ATOM 1003 CG1 VAL A 289 -6.947 23.229 59.338 1.00 20.04 \mathbf{C} -8.523 23.112 57.423 1.00 20.55 ATOM 1007 CG2 VAL A 289 C -9.005 22.162 61.137 1.00 21.11 ATOM 1011 C VAL A 289 C ATOM 1012 O VAL A 289 -9.284 23.151 61.788 1.00 20.89 0 ATOM 1013 N PRO A 290 -8.511 21.078 61.711 1.00 21.55 N ATOM 1014 CA PRO A 290 -8.262 21.048 63.155 1.00 21.97 C ATOM 1016 CB PRO A 290 -7.576 19.691 63.374 1.00 21.92 \mathbf{C} ATOM 1019 CG PRO A 290 -8.110 18.849 62.272 1.00 22.54 C ATOM 1022 CD PRO A 290 -8.177 19.795 61.074 1.00 22.12 C ATOM 1025 C PRO A 290 -7.382 22.201 63.648 1.00 22.60 C ATOM 1026 O PRO A 290 -6.302 22.483 63.085 1.00 21.36 0 ATOM 1027 N GLY A 291 -7.862 22.840 64.728 1.00 23.56 N ATOM 1029 CA GLY A 291 -7.273 24.061 65.253 1.00 24.05 C ATOM 1032 C GLY A 291 -8.084 25.312 64.881 1.00 24.85 C ATOM 1033 O GLY A 291 -8.128 26.286 65.642 1.00 25.14 0 ATOM 1034 N PHE A 292 -8.739 25.315 63.724 1.00 25.09 N ATOM 1036 CA PHE A 292 -9.328 26.556 63.259 1.00 25.49 \mathbf{C} ATOM 1038 CB PHE A 292 -9.782 26.476 61.792 1.00 25.34 C -10.313 27.793 61.247 1.00 24.83 ATOM 1041 CG PHE A 292 C ATOM 1042 CD1 PHE A 292 -9.473 28.687 60.606 1.00 24.26 -9.958 29.889 60.111 1.00 24.47 ATOM 1044 CE1 PHE A 292 ATOM 1046 CZ PHE A 292 -11.275 30.213 60.262 1.00 24.13 C ATOM 1048 CE2 PHE A 292 -12.130 29.324 60.890 1.00 24.51 C ATOM 1050 CD2 PHE A 292 -11.651 28.131 61.382 1.00 24.38 C ATOM 1052 C PHE A 292 -10.490 26.935 64.155 1.00 26.26 C ATOM 1053 O PHE A 292 -10.486 27.995 64.754 1.00 25.69 0 ATOM 1054 N LEU A 293 -11.483 26.058 64.251 1.00 27.65 N ATOM 1056 CA LEU A 293 -12.710 26.388 64.964 1.00 28.61 C ATOM 1058 CB LEU A 293 -13.840 25.376 64.683 1.00 29.02 C ATOM 1061 CG LEU A 293 -14.810 25.599 63.488 1.00 31.33 C ATOM 1063 CD1 LEU A 293 -16.103 24.757 63.649 1.00 32.23 C ATOM 1067 CD2 LEU A 293 -15.200 27.064 63.259 1.00 32.62 C ATOM 1071 C LEU A 293 -12.422 26.513 66.458 1.00 28.53 C ATOM 1072 O LEU A 293 -13.307 26.810 67.227 1.00 29.36 0 ATOM 1073 N GLN A 294 -11.175 26.343 66.857 1.00 28.36 N ATOM 1075 CA GLN A 294 -10.793 26.517 68.233 1.00 28.53 \mathbf{C} ATOM 1077 CB GLN A 294 -10.086 25.229 68.671 1.00 29.69 C ATOM 1080 CG GLN A 294 -11.080 23.994 68.980 1.00 30.93

ATOM	1083 CD GLN A 294 -	12.019 23.596 67.821 1.00 31.94	С
ATOM		-11.601 23.523 66.654 1.00 33.37	O
ATOM	1085 NE2 GLN A 294	-13.285 23.343 68.153 1.00 32.22	N
ATOM	1088 C GLN A 294 -	9.927 27.765 68.483 1.00 28.31	C
ATOM	1089 O GLN A 294 -	9.371 27.939 69.568 1.00 28.59	Ο
ATOM	1090 N LEU A 295 -	9.821 28.644 67.479 1.00 27.61	N
ATOM	1092 CA LEU A 295	-9.274 30.007 67.642 1.00 25.98	С
ATOM		-8.658 30.501 66.340 1.00 25.70	C
ATOM		-7.250 30.025 66.006 1.00 25.90	C
ATOM		-6.950 30.228 64.483 1.00 25.84	С
ATOM	1103 CD2 LEU A 295	-6.190 30.700 66.899 1.00 25.19	С
		0.417 30.935 68.024 1.00 25.16	C
		1.575 30.558 67.862 1.00 24.68	0
ATOM		10.097 32.143 68.505 1.00 24.51	N
ATOM		-11.111 33.132 68.854 1.00 24.03	С
		1.784 33.597 67.590 1.00 24.16	С
		11.126 33.708 66.564 1.00 24.80	O
		13.080 33.860 67.620 1.00 24.32	N
		-13.810 34.213 66.382 1.00 25.00	С
		-15.255 34.611 66.698 1.00 25.43	C
ATOM		-16.188 34.290 65.559 1.00 27.42	С
ATOM		-17.373 35.210 65.432 1.00 31.34	С
		-18.364 34.571 64.557 1.00 35.73	N
		-19.306 35.200 63.859 1.00 37.74	С
		-19.424 36.516 63.913 1.00 38.58	N
		-20.138 34.496 63.102 1.00 38.50	N
		13.182 35.312 65.466 1.00 24.72	C
		13.282 35.238 64.232 1.00 23.75	O
ATOM		12.582 36.328 66.090 1.00 24.68	N
ATOM		-11.933 37.438 65.387 1.00 24.95	C
ATOM		-11.537 38.549 66.372 1.00 25.42	С
ATOM	1147 CG GLU A 298	-12.416 39.784 66.315 1.00 28.30	C
ATOM	1150 CD GLU A 298	-13.846 39.509 66.741 1.00 32.48	C
		-14.656 39.068 65.869 1.00 35.14	0
		-14.156 39.737 67.944 1.00 34.25	О
ATOM	1153 C GLU A 298 -	10.695 36.976 64.615 1.00 24.10	C
ATOM	1154 O GLU A 298 -	10.458 37.418 63.488 1.00 23.76	0
ATOM	1155 N ASP A 299 -	9.902 36.108 65.227 1.00 23.29	N
		-8.799 35.478 64.505 1.00 22.93	С
ATOM	1159 CB ASP A 299	-7.881 34.701 65.449 1.00 22.83	С
ATOM	1162 CG ASP A 299	-7.095 35.611 66.379 1.00 22.90	C
	1163 OD1 ASP A 299	-6.927 36.798 66.038 1.00 21.91	O
		-6.622 35.221 67.473 1.00 24.10	Ο
ATOM	1165 C ASP A 299 -	9.274 34.553 63.392 1.00 22.80	C
ATOM	1166 O ASP A 299 -	8.617 34.464 62.367 1.00 22.18	O
ATOM		10.404 33.864 63.583 1.00 22.76	N
ATOM	1169 CA GLN A 300	-10.942 33.027 62.510 1.00 22.87	C
ATOM	1171 CB GLN A 300	-12.216 32.311 62.924 1.00 22.91	С

ATOM	1174 CG GLN A 300 -11.	973 31.073 63.743 1.00 23.81	С
		227 30.542 64.412 1.00 23.65	C
ATOM	1178 OE1 GLN A 300 -13	.146 30.027 65.521 1.00 24.04	C
		.378 30.679 63.757 1.00 23.05	N
ATOM		61 33.863 61.293 1.00 22.97	C
ATOM		93 33.443 60.164 1.00 24.45	Ŏ
		4 35.030 61.534 1.00 22.34	N
		53 35.953 60.491 1.00 21.80	C
ATOM		85 37.048 61.078 1.00 21.87	Č
ATOM		594 36.477 61.342 1.00 22.74	C
		503 37.351 62.232 1.00 22.27	Č
		313 38.185 60.127 1.00 21.94	Č
	1201 C ILE A 301 -11.02		C
		1 36.722 58.605 1.00 21.05	Ö
		36 36.922 60.674 1.00 20.83	N
ATOM		330 37.605 60.233 1.00 20.46	C
ATOM		987 37.974 61.406 1.00 19.86	Č
		39 36.724 59.281 1.00 20.94	C
		10 37.189 58.216 1.00 20.77	Ö
		72 35.453 59.658 1.00 21.40	N
		990 34.488 58.881 1.00 21.77	C
		01 33.228 59.684 1.00 21.23	Ċ
ATOM		008 33.467 60.968 1.00 21.16	Ċ
ATOM		946 32.138 61.668 1.00 21.97	C
ATOM		600 34.067 60.755 1.00 19.94	C
ATOM		86 34.109 57.585 1.00 22.85	C
ATOM	1231 O LEU A 303 -7.13	34 33.988 56.537 1.00 22.72	O
ATOM	1232 N LEU A 304 -9.10	00 33.918 57.639 1.00 23.86	N
ATOM	1234 CA LEU A 304 -9.8	356 33.696 56.403 1.00 24.79	C
ATOM	1236 CB LEU A 304 -11.3	294 33.276 56.694 1.00 25.13	С
ATOM	1239 CG LEU A 304 -11.4	480 31.777 56.894 1.00 27.17	С
ATOM	1241 CD1 LEU A 304 -12	.937 31.437 57.319 1.00 27.02	C
ATOM	1245 CD2 LEU A 304 -11.	.069 31.035 55.600 1.00 28.70	C
ATOM	1249 C LEU A 304 -9.83	88 34.926 55.483 1.00 24.88	C
ATOM	1250 O LEU A 304 -9.72	28 34.784 54.278 1.00 25.15	O
ATOM	1251 N LYS A 305 -9.93	88 36.128 56.033 1.00 24.70	N
ATOM	1253 CA LYS A 305 -9.9	77 37.306 55.173 1.00 24.80	C
ATOM	1255 CB LYS A 305 -10.1	122 38.628 55.957 1.00 25.19	C
ATOM	1258 CG LYS A 305 -11.5	575 39.064 56.156 1.00 27.47	C
ATOM	1261 CD LYS A 305 -11.	731 40.506 56.674 1.00 29.14	C
ATOM	1264 CE LYS A 305 -11.1	69 41.544 55.708 1.00 29.79	C
ATOM	1267 NZ LYS A 305 -12.1	152 42.664 55.499 1.00 29.76	N
		8 37.360 54.307 1.00 24.04	C
		2 37.631 53.127 1.00 24.22	Ο
		76 37.100 54.893 1.00 23.38	N
		310 37.249 54.191 1.00 22.95	C
		225 37.367 55.183 1.00 23.00	C
ATOM	1281 C ALA A 306 -6.02	29 36.064 53.266 1.00 23.52	C

ATOM	1282	O ALA A 306 -5.4	458 36.226 52.197 1.00 23.67	O
ATOM	1283	N SER A 307 -6.4	67 34.877 53.694 1.00 23.82	N
ATOM	1285	CA SER A 307 -6.	222 33.599 53.023 1.00 23.95	C
ATOM	1287	CB SER A 307 -6.	596 32.467 53.986 1.00 24.44	С
ATOM	1290	OG SER A 307 -5.	539 32.160 54.863 1.00 28.57	O
ATOM	1292	C SER A 307 -7.0	68 33.348 51.788 1.00 23.00	С
			85 32.637 50.874 1.00 22.83	0
			270 33.870 51.809 1.00 22.03	N
ATOM	1296	CA THR A 308 -9	.257 33.485 50.837 1.00 21.51	С
ATOM	1298	CB THR A 308 -10	0.553 34.297 51.065 1.00 21.69	С
ATOM	1300	OG1 THR A 308 -1	1.122 33.910 52.312 1.00 21.74	O
ATOM	1302	CG2 THR A 308 -1	1.647 33.909 50.100 1.00 22.66	C
			725 33.603 49.407 1.00 20.49	С
			767 32.632 48.675 1.00 20.62	O
			06 34.759 49.015 1.00 19.39	N
			715 34.924 47.646 1.00 18.77	С
			37 36.393 47.351 1.00 18.63	С
			044 36.608 45.855 1.00 19.02	C
			254 36.358 44.924 1.00 19.57	C
			139 36.793 48.139 1.00 18.43	С
			27 34.004 47.381 1.00 18.63	C
ATOM	1326	O ILE A 309 -6.35	54 33.525 46.249 1.00 18.68	O
ATOM	1327	N GLU A 310 -5.3	705 33.775 48.413 1.00 18.19	N
ATOM	1329	CA GLU A 310 -4	.515 32.938 48.286 1.00 17.74	С
ATOM	1331	CB GLU A 310 -3	.592 33.055 49.501 1.00 17.22	С
ATOM	1334	CG GLU A 310 -3	.035 34.449 49.613 1.00 17.01	C
ATOM	1337	CD GLU A 310 -2	.126 34.694 50.786 1.00 16.86	C
			.578 33.754 51.386 1.00 17.65	Ο
ATOM	1339	OE2 GLU A 310 -1	.964 35.882 51.094 1.00 16.61	Ο
ATOM	1340	C GLU A 310 -4.9	929 31.517 48.080 1.00 18.04	C
ATOM	1341	O GLU A 310 -4.3	327 30.824 47.303 1.00 19.07	Ο
ATOM	1342	N ILE A 311 -5.97	78 31.084 48.747 1.00 18.10	N
			109 29.721 48.622 1.00 18.31	С
ATOM	1346	CB ILE A 311 -7.3	88 29.349 49.738 1.00 18.22	C
			685 29.378 51.088 1.00 19.46	C
			626 29.479 52.271 1.00 20.90	C
			895 27.966 49.527 1.00 19.07	С
			52 29.577 47.274 1.00 18.37	С
			04 28.511 46.690 1.00 19.22	0
			657 30.651 46.782 1.00 18.59	N
			.302 30.648 45.483 1.00 19.12	С
ATOM			.078 31.951 45.258 1.00 19.36	С
			0.465 31.911 45.882 1.00 21.56	C
			.398 33.489 46.069 1.00 24.13	S
			2.498 33.369 44.743 1.00 24.71	С
ATOM			269 30.479 44.384 1.00 19.31	C
			549 29.928 43.330 1.00 19.64	0
ATOM	1378	N LEU A 313 -6.0	73 30.983 44.635 1.00 19.67	N

ATOM	1380	CA LEU A 313	-4.998 30.969 43.668 1.00 19.66	C
ATOM	1382	CB LEU A 313	-3.984 32.036 44.049 1.00 19.66	С
ATOM	1385	CG LEU A 313	-4.382 33.451 43.609 1.00 19.99	С
ATOM	1387	CD1 LEU A 313	-3.726 34.533 44.426 1.00 20.68	С
ATOM	1391	CD2 LEU A 313	-3.965 33.656 42.193 1.00 20.17	С
ATOM	1395	C LEU A 313	-4.382 29.580 43.614 1.00 19.87	С
ATOM	1396	O LEU A 313	-4.102 29.071 42.557 1.00 19.56	0
ATOM		N LEU A 314	-4.187 28.975 44.768 1.00 20.83	N
ATOM	1399	CA LEU A 314		С
ATOM	1401	CB LEU A 314	-3.727 27.163 46.359 1.00 22.48	Ċ
ATOM	1404	CG LEU A 314	-2.398 27.033 47.141 1.00 23.90	C
ATOM			-1.137 27.368 46.355 1.00 24.36	С
			-2.445 27.875 48.405 1.00 24.82	Ċ
		C LEU A 314		C
		O LEU A 314	-4.491 25.810 43.346 1.00 23.05	Ō
			-6.101 26.885 44.498 1.00 24.65	N
			-7.195 26.089 43.976 1.00 25.56	C
		CB GLU A 315		Ċ
ATOM	1423	CG GLU A 315		Ċ
		CD GLU A 315		Ċ
			-9.321 23.639 44.872 1.00 33.50	0
			-8.428 23.521 46.852 1.00 32.27	Ō
		C GLU A 315	-7.296 26.247 42.469 1.00 25.69	C
ATOM	1430	O GLU A 315	-7.555 25.285 41.787 1.00 26.52	0
ATOM		N THR A 316		N
ATOM	1433	CA THR A 316	-7.090 27.696 40.526 1.00 26.05	С
ATOM	1435	CB THR A 316	-6.922 29.203 40.277 1.00 26.00	С
ATOM	1437	OG1 THR A 316	-8.093 29.889 40.710 1.00 24.43	O
ATOM	1439	CG2 THR A 316	-6.825 29.557 38.776 1.00 26.36	С
ATOM	1443	C THR A 316	-5.949 26.911 39.881 1.00 27.15	C
ATOM	1444	O THR A 316	-6.106 26.291 38.827 1.00 27.00	O
ATOM	1445	N ALA A 317	-4.792 26.935 40.526 1.00 28.49	N
ATOM	1447	CA . ALA A 317	-3.647 26.202 40.032 1.00 29.48	C
ATOM	1449	CB ALA A 317	-2.414 26.524 40.852 1.00 29.09	C
ATOM	1453	C ALA A 317	-3.946 24.693 40.025 1.00 30.57	С
ATOM	1454	O ALA A 317	-3.513 23.991 39.109 1.00 30.74	Ο
ATOM	1455	N ARG A 318	-4.687 24.216 41.028 1.00 31.85	N
ATOM	1457	CA ARG A 318	-5.126 22.825 41.101 1.00 33.09	C
ATOM	1459	CB ARG A 318	-5.911 22.570 42.392 1.00 33.39	C
ATOM	1462	CG ARG A 318	-5.487 21.303 43.102 1.00 36.52	C
ATOM	1465	CD ARG A 318	-5.983 21.150 44.538 1.00 41.24	С
ATOM	1468	NE ARG A 318	-6.420 19.776 44.794 1.00 44.94	N
ATOM	1470	CZ ARG A 318	-7.700 19.383 44.906 1.00 49.98	C
ATOM	1471	NH1 ARG A 318	-8.712 20.264 44.812 1.00 51.18	N
ATOM	1474	NH2 ARG A 318	-7.985 18.089 45.115 1.00 51.48	N
ATOM	1477	C ARG A 318	-5.984 22.488 39.874 1.00 33.69	С
			-5.744 21.492 39.180 1.00 33.38	O
ATOM	1479	N ARG A 319	-6.941 23.375 39.589 1.00 34.59	N

			-7.887 23.259 38.465 1.00 35.10	С
ATOM	1483	CB ARG A 319	-9.108 24.159 38.716 1.00 34.88	C
ATOM	1486	CG ARG A 319	-9.918 23.762 39.930 1.00 35.78	С
ATOM	1489	CD ARG A 319	-11.099 24.665 40.185 1.00 38.17	С
ATOM	1492	NE ARG A 319	-11.891 24.243 41.351 1.00 39.91	N
ATOM	1494	CZ ARG A 319	-12.277 25.046 42.355 1.00 41.85	С
ATOM	1495	NH1 ARG A 319	-11.947 26.339 42.397 1.00 42.33	N
ATOM	1498	NH2 ARG A 319	-12.985 24.543 43.353 1.00 43.47	N
ATOM	1501	C ARG A 319	-7.285 23.598 37.093 1.00 35.47	С
			-7.976 23.569 36.076 1.00 35.25	0
			-6.003 23.934 37.066 1.00 36.30	N
			-5.333 24.270 35.818 1.00 36.91	С
			-4.014 25.004 36.080 1.00 36.73	C
			-3.309 25.509 34.837 1.00 36.21	Č
			-3.835 26.560 34.077 1.00 36.01	Č
			-3.161 27.041 32.939 1.00 35.49	Č
				Č
			-1.250 26.900 31.438 1.00 36.55	Ö
			-1.432 25.416 33.299 1.00 35.51	Č
			-2.107 24.948 34.429 1.00 35.41	Č
			-5.081 22.984 35.058 1.00 37.52	c
			-4.856 21.920 35.656 1.00 37.77	Ö
			-5.132 23.095 33.741 1.00 38.08	. N
			-4.933 21.965 32.868 1.00 38.74	C
			-6.292 21.542 32.305 1.00 39.04	C
				C
			-6.270 20.161 31.660 1.00 39.71	
			-5.695 19.212 32.207 1.00 39.37	0
			-6.921 20.040 30.495 1.00 40.27	N
			3.975 22.450 31.795 1.00 39.20	C
			-4.361 23.240 30.934 1.00 38.92	0
			2.714 22.017 31.880 1.00 39.98	N
			-1.655 22.572 31.029 1.00 40.64	C
			0.274 22.102 31.487 1.00 40.96	C
			0.864 22.772 30.767 1.00 42.17	C
			1.029 24.142 30.741 1.00 42.91	N
			2.112 24.440 30.042 1.00 43.21	С
			2.653 23.314 29.608 1.00 43.01	N
			1.889 22.256 30.042 1.00 42.88	C
			1.851 22.243 29.549 1.00 40.86	C
			1.574 23.078 28.683 1.00 41.03	O
			-2.317 21.027 29.264 1.00 41.10	N
			-2.709 20.652 27.904 1.00 41.20	С
			-3.456 19.306 27.896 1.00 41.38	C
			-2.655 18.079 28.329 1.00 41.67	С
			-3.403 16.773 28.066 1.00 41.89	С
ATOM	1567	OE1 GLU A 323	-4.263 16.390 28.904 1.00 41.85	О
ATOM	1568	OE2 GLU A 323	-3.140 16.137 27.018 1.00 40.22	O
ATOM	1569	C GLU A 323	-3.606 21.733 27.270 1.00 41.09	C

ATOM	1570 O GLU A 323 -3	.355 22.148 26.142 1.00 40.95	Ο
ATOM	1571 N THR A 324 -4	.626 22.190 28.015 1.00 41.03	N
ATOM	1573 CA THR A 324 -	5.670 23.114 27.504 1.00 40.78	С
ATOM	1575 CB THR A 324 -	7.095 22.609 27.932 1.00 40.89	С
ATOM	1577 OG1 THR A 324	-7.189 22.469 29.362 1.00 39.74	O
ATOM	1579 CG2 THR A 324 -	-7.387 21.187 27.379 1.00 40.81	С
ATOM	1583 C THR A 324 -5	.533 24.626 27.852 1.00 40.66	С
		.207 25.455 27.232 1.00 40.67	O
		.659 24.975 28.802 1.00 40.26	N
		4.478 26.359 29.285 1.00 40.12	С
		3.905 27.276 28.182 1.00 40.18	С
		2.419 27.589 28.320 1.00 40.42	С
		1.562 26.845 27.301 1.00 41.51	С
		-1.843 25.658 27.002 1.00 41.27	O
		0.595 27.450 26.787 1.00 42.41	O
		.738 26.999 29.917 1.00 39.99	C
		.946 28.221 29.812 1.00 40.10	O
ATOM		.541 26.183 30.609 1.00 39.50	N
ATOM		7.790 26.640 31.228 1.00 38.95	C
ATOM		8.992 26.185 30.401 1.00 39.01	C
		9.111 26.981 28.799 1.00 38.58	S
ATOM		.992 26.138 32.643 1.00 38.53	C
		.344 25.183 33.093 1.00 38.33	O
		945 26.771 33.316 1.00 37.77	N
ATOM		.236 26.471 34.697 1.00 37.49	С
ATOM		.142 27.781 35.509 1.00 37.81	C
ATOM		7.742 28.428 35.312 1.00 37.66	C
		7.733 29.940 35.326 1.00 36.71	С
ATOM		9.465 27.528 37.007 1.00 37.15	С
ATOM	1627 C ILE A 327 -10.0	618 25.824 34.786 1.00 37.10	С
		616 26.483 34.552 1.00 37.07	O
		0.662 24.538 35.125 1.00 36.78	N
ATOM		1.886 23.740 35.080 1.00 36.62	C
ATOM	1633 CB THR A 328 -1	1.592 22.371 34.445 1.00 36.47	C
		10.710 22.524 33.335 1.00 35.61	O
ATOM	1637 CG2 THR A 328 -	12.848 21.766 33.860 1.00 36.27	С
ATOM	1641 C THR A 328 -12	2.499 23.480 36.456 1.00 37.12	С
		2.047 22.567 37.178 1.00 37.38	O
ATOM	1643 N PHE A 329 -13	3.539 24.250 36.799 1.00 37.04	N
ATOM	1645 CA PHE A 329 -1	4.393 23.973 37.963 1.00 36.98	С
ATOM	1647 CB PHE A 329 -1	5.369 25.106 38.138 1.00 37.16	С
ATOM	1650 CG PHE A 329 -1	4.738 26.338 38.646 1.00 38.09	С
ATOM		14.309 27.316 37.774 1.00 38.50	С
ATOM		3.726 28.470 38.256 1.00 39.61	C
		3.545 28.646 39.629 1.00 39.60	C
		3.963 27.667 40.501 1.00 39.64	C
		14.556 26.517 40.010 1.00 39.10	C
		.189 22.653 37.917 1.00 36.78	С

ATOM	1662	O PHE A 329	-15.187 21.881 38.884 1.00 37.36	O
ATOM	1663	N LEU A 330	-15.903 22.416 36.824 1.00 36.01	N
ATOM	1665	CA LEU A 330	-16.477 21.095 36.574 1.00 35.45	C
ATOM	1667	CB LEU A 330	-17.773 20.911 37.375 1.00 35.35	С
ATOM	1670	CG LEU A 330		C
ATOM	1672	CD1 LEU A 330		C
ATOM			-18.771 23.012 38.342 1.00 35.02	Č
ATOM		C LEU A 330		C
ATOM		O LEU A 330		Ō
ATOM			-17.370 19.842 34.653 1.00 34.67	N
ATOM			-17.650 19.642 33.235 1.00 34.60	C
ATOM		CB LYS A 331		Č
		CG LYS A 331		Č
ATOM			-17.697 16.071 32.717 1.00 37.53	Č
ATOM		CE LYS A 331		č
ATOM			-17.013 13.739 33.451 1.00 37.10	N
ATOM			-18.304 20.912 32.708 1.00 33.99	c
ATOM		O LYS A 331		Ö
				N
			-18.426 22.566 30.872 1.00 32.35	C
		CB ASP A 332		c
			-20.091 21.165 29.608 1.00 31.87	C
			-19.396 21.164 28.574 1.00 31.76	0
			-20.907 20.242 29.774 1.00 31.70	0
			-18.279 23.950 31.515 1.00 31.90	C
ATOM				
			-18.887 24.910 31.057 1.00 32.08	0
			-17.471 24.066 32.556 1.00 31.47	N
			-17.178 25.367 33.157 1.00 31.12	C
		CB PHE A 333		C
		CG PHE A 333		C
ATOM			-20.154 24.635 34.520 1.00 30.49	C
ATOM			-21.531 24.834 34.492 1.00 31.19	C
			-22.040 26.127 34.498 1.00 31.20	C
			-21.165 27.213 34.518 1.00 30.95	C
			-19.792 27.000 34.534 1.00 30.37	C
		C PHE A 333	-15.673 25.509 33.218 1.00 30.89	C
		O PHE A 333	-15.061 25.168 34.232 1.00 30.67	0
		N THR A 334	-15.113 25.977 32.095 1.00 30.70	N
		CA THR A 334		C
		CB THR A 334		C
		OG1 THR A 334	-14.116 24.273 30.413 1.00 30.85	О
		CG2 THR A 334	-11.959 24.400 31.335 1.00 31.05	C
ATOM		C THR A 334	-13.430 27.605 31.433 1.00 30.36	С
		O THR A 334	-14.285 28.198 30.782 1.00 30.22	O
		N TYR A 335	-12.252 28.143 31.760 1.00 30.49	N
		CA TYR A 335	-11.945 29.554 31.504 1.00 30.52	С
		CB TYR A 335	-12.281 30.417 32.744 1.00 30.50	C
ATOM	1757	CG TYR A 335	-13.725 30.253 33.151 1.00 29.73	C

ATOM	1758	CD1 TYR A 335	-14.111 29.211 33.988 1.00 29.00	C
ATOM	1760	CE1 TYR A 335	-15.437 29.008 34.319 1.00 29.25	C
ATOM	1762	CZ TYR A 335	-16.404 29.848 33.813 1.00 29.43	С
ATOM	1763	OH TYR A 335	-17.728 29.640 34.157 1.00 29.83	О
ATOM	1765	CE2 TYR A 335	-16.047 30.890 32.964 1.00 29.62	С
ATOM	1767	CD2 TYR A 335	-14.711 31.082 32.634 1.00 29.34	C
ATOM	1769	C TYR A 335	-10.499 29.746 31.054 1.00 30.71	С
ATOM	1770	O TYR A 335	-9.557 29.311 31.731 1.00 30.82	O
ATOM	1771	N SER A 336	-10.355 30.397 29.900 1.00 30.62	N
ATOM	1773	CA SER A 336	-9.067 30.653 29.275 1.00 30.64	С
ATOM	1775	CB SER A 336	-9.190 30.444 27.760 1.00 30.56	С
ATOM	1778	OG SER A 336	-9.901 31.505 27.136 1.00 30.44	O
ATOM	1780	C SER A 336	-8.596 32.081 29.570 1.00 30.66	С
ATOM	1781	O SER A 336	-9.396 32.923 29.964 1.00 30.70	O
ATOM	1782	N LYS A 337	-7.309 32.351 29.345 1.00 30.48	N
ATOM	1784	CA LYS A 337	-6.727 33.684 29.534 1.00 30.56	C
ATOM	1786	CB LYS A 337	-5.314 33.747 28.927 1.00 31.14	C
ATOM	1789	CG LYS A 337	-4.155 33.988 29.928 1.00 32.14	C
ATOM	1792	CD LYS A 337	-2.765 33.637 29.325 1.00 33.30	С
ATOM	1795	CE LYS A 337	-2.704 32.176 28.795 1.00 33.77	С
ATOM	1798	NZ LYS A 337	-1.345 31.557 28.831 1.00 33.44	N
ATOM	1802	C LYS A 337	-7.569 34.772 28.894 1.00 30.26	C
ATOM	1803	O LYS A 337	-7.521 35.928 29.313 1.00 30.04	O
ATOM	1804	N ASP A 338	-8.305 34.402 27.845 1.00 30.27	N
ATOM	1806	CA ASP A 338	-9.172 35.336 27.121 1.00 29.97	\mathbf{C}
ATOM	1808	CB ASP A 338	-9.520 34.794 25.734 1.00 30.06	С
ATOM	1811	CG ASP A 338	-8.406 34.976 24.760 1.00 29.95	C
ATOM	1812	OD1 ASP A 338	-7.236 34.956 25.216 1.00 29.17	Ο
ATOM	1813	OD2 ASP A 338	-8.607 35.155 23.535 1.00 30.85	О
ATOM	1814	C ASP A 338	-10.451 35.607 27.867 1.00 29.57	С
ATOM	1815	O ASP A 338	-10.830 36.759 28.065 1.00 29.03	Ο
ATOM	1816	N ASP A 339	-11.119 34.529 28.256 1.00 29.61	N
ATOM	1818	CA ASP A 339	-12.340 34.613 29.051 1.00 29.76	C
ATOM	1820	CB ASP A 339	-12.776 33.208 29.519 1.00 29.82	С
ATOM	1823	CG ASP A 339	-13.224 32.292 28.352 1.00 30.31	C
ATOM	1824	OD1 ASP A 339	-13.350 32.747 27.192 1.00 29.58	О
ATOM	1825	OD2 ASP A 339	-13.471 31.079 28.511 1.00 31.96	О
ATOM	1826	C ASP A 339	-12.173 35.590 30.238 1.00 29.61	C
ATOM	1827	O ASP A 339	-13.081 36.367 30.528 1.00 29.84	Ο
ATOM	1828	N PHE A 340	-11.004 35.578 30.885 1.00 29.50	N
ATOM	1830	CA PHE A 340	-10.685 36.523 31.970 1.00 29.32	C
ATOM	1832	CB PHE A 340	-9.293 36.251 32.549 1.00 29.08	С
ATOM	1835	CG PHE A 340	-9.238 35.138 33.575 1.00 27.85	C
ATOM	1836	CD1 PHE A 340	-9.486 33.827 33.214 1.00 26.34	C
ATOM	1838	CE1 PHE A 340	-9.412 32.806 34.123 1.00 26.55	С
ATOM	1840	CZ PHE A 340	-9.065 33.070 35.429 1.00 28.40	C
ATOM	1842	CE2 PHE A 340	-8.784 34.382 35.816 1.00 28.88	C
ATOM	1844	CD2 PHE A 340	-8.871 35.407 34.885 1.00 28.20	C

-10.712 37.968 31.478 1.00 29.75 ATOM 1846 C PHE A 340 C ATOM 1847 O PHE A 340 -11.339 38.829 32.078 1.00 29.51 0 -10.004 38,225 30.385 1.00 30.66 ATOM 1848 N HIS A 341 N -9.967 39.556 29.772 1.00 31.34 ATOM 1850 CA HIS A 341 C ATOM 1852 CB HIS A 341 -9.107 39.538 28.498 1.00 31.57 C ATOM 1855 CG HIS A 341 -8.584 40.887 28.107 1.00 33.26 C ATOM 1856 ND1 HIS A 341 -7.731 41.618 28.914 1.00 34.11 N ATOM 1858 CE1 HIS A 341 -7.451 42.766 28.319 1.00 35.02 C ATOM 1860 NE2 HIS A 341 -8.087 42.805 27.156 1.00 34.36 N ATOM 1862 CD2 HIS A 341 -8.801 41.642 26.998 1.00 33.85 C ATOM 1864 C HIS A 341 -11.362 40.103 29.461 1.00 31.38 C -11.612 41.293 29.628 1.00 31.11 ATOM 1865 O HIS A 341 0 ATOM 1866 N ARG A 342 -12.261 39.220 29.031 1.00 31.76 N ATOM 1868 CA ARG A 342 -13.625 39.597 28.653 1.00 32.13 ATOM 1870 CB ARG A 342 -14.335 38.433 27.951 1.00 32.29 C ATOM 1873 CG ARG A 342 -13.904 38.255 26.504 1.00 33.17 C ATOM 1876 CD ARG A 342 -13.552 36.819 26.123 1.00 34.29 C ATOM 1879 NE ARG A 342 -13.140 36.722 24.721 1.00 35.20 N ATOM 1881 CZ ARG A 342 -12.705 35.612 24.123 1.00 35.30 C ATOM 1882 NH1 ARG A 342 -12.602 34.464 24.788 1.00 34.47 N ATOM 1885 NH2 ARG A 342 -12.372 35.656 22.838 1.00 36.13 N ATOM 1888 C ARG A 342 -14.452 40.034 29.845 1.00 31.97 C ATOM 1889 O ARG A 342 -15.360 40.857 29.706 1.00 32.19 O ATOM 1890 N ALA A 343 -14.130 39.477 31.008 1.00 31.72 N ATOM 1892 CA ALA A 343 -14.811 39.807 32.257 1.00 31.67 C ATOM 1894 CB ALA A 343 -14.631 38.659 33.278 1.00 31.71 C -14.353 41.135 32.870 1.00 31.51 ATOM 1898 C ALA A 343 C ATOM 1899 O ALA A 343 -14.768 41.476 33.980 1.00 31.63 0 ATOM 1900 N GLY A 344 -13.493 41.868 32.166 1.00 31.27 N ATOM 1902 CA GLY A 344 -13.075 43.197 32.587 1.00 31.26 C ATOM 1905 C GLY A 344 -11.712 43.224 33.244 1.00 31.18 C ATOM 1906 O GLY A 344 -11.175 44.296 33.535 1.00 31.19 0 ATOM 1907 N LEU A 345 -11.147 42.041 33.459 1.00 31.06 N ATOM 1909 CA LEU A 345 -9.919 41.898 34.215 1.00 30.88 C ATOM 1911 CB LEU A 345 -9.743 40.444 34.681 1.00 30.90 C ATOM 1914 CG LEU A 345 -10.874 39.685 35.411 1.00 29.95 \mathbf{C} ATOM 1916 CD1 LEU A 345 -10.279 38.606 36.275 1.00 30.17 C ATOM 1920 CD2 LEU A 345 -11.741 40.559 36.257 1.00 29.30 C ATOM 1924 C LEU A 345 -8.684 42.371 33.426 1.00 31.15 C ATOM 1925 O LEU A 345 -8.472 42.013 32.263 1.00 31.10 0 ATOM 1926 N GLN A 346 -7.915 43.232 34.084 1.00 31.43 N ATOM 1928 CA GLN A 346 -6.570 43.634 33.675 1.00 31.50 C ATOM 1930 CB GLN A 346 -5.902 44.374 34.841 1.00 31.89 C ATOM 1933 CG GLN A 346 -6.224 45.842 34.993 1.00 31.90 C ATOM 1936 CD GLN A 346 -5.473 46.429 36.181 1.00 31.13 C ATOM 1937 OE1 GLN A 346 -5.278 45.749 37.207 1.00 27.79 0 ATOM 1938 NE2 GLN A 346 -5.031 47.682 36.040 1.00 31.01 N -5.581 42.505 33.303 1.00 31.21 ATOM 1941 C GLN A 346 C

ATOM	1942 O GLN A 346	-5.642 41.379 33.823 1.00 31.24	0
ATOM	1943 N VAL A 347	-4.626 42.890 32.450 1.00 30.55	N
ATOM	1945 CA VAL A 347	-3.417 42.125 32.115 1.00 29.63	С
ATOM	1947 CB VAL A 347	-2.625 42.877 30.995 1.00 29.42	С
ATOM	1949 CG1 VAL A 347	-1.342 42.155 30.655 1.00 28.92	C
ATOM	1953 CG2 VAL A 347	-3.512 43.083 29.740 1.00 29.39	С
ATOM	1957 C VAL A 347	-2.513 41.962 33.350 1.00 28.89	C
ATOM	1958 O VAL A 347	-1.935 40.899 33.591 1.00 28.20	O
ATOM		-2.406 43.050 34.109 1.00 28.28	N
ATOM	1961 CA GLU A 348	-1.617 43.123 35.329 1.00 28.04	С
ATOM	1963 CB GLU A 348	-1.819 44.497 35.988 1.00 28.17	С
ATOM	1966 CG GLU A 348	-1.084 45.660 35.318 1.00 28.94	С
	1969 CD GLU A 348	-1.955 46.586 34.455 1.00 30.20	С
		-3.106 46.221 34.132 1.00 31.40	0
		-1.478 47.692 34.076 1.00 29.15	0
ATOM		-1.923 41.997 36.337 1.00 27.64	C
ATOM		-1.036 41.630 37.096 1.00 27.84	O
		-3.159 41.461 36.323 1.00 26.79	N
ATOM		-3.615 40.339 37.183 1.00 25.66	С
ATOM		-5.045 40.667 37.659 1.00 25.81	C
		-5.614 39.738 38.709 1.00 24.39	С
ATOM		-4.848 39.253 39.751 1.00 25.08	C
ATOM		-5.424 38.413 40.750 1.00 26.06	С
ATOM	1986 CZ PHE A 349	-6.773 38.075 40.682 1.00 24.63	С
ATOM	1988 CE2 PHE A 349	-7.545 38.567 39.648 1.00 24.62	C
ATOM	1990 CD2 PHE A 349	-6.963 39.401 38.672 1.00 24.98	C
ATOM	1992 C PHE A 349 -	3.599 38.948 36.483 1.00 25.03	C
ATOM	1993 O PHE A 349 -	-3.144 37.955 37.067 1.00 24.41	Ο
ATOM	1994 N ILE A 350 -4	4.074 38.889 35.235 1.00 24.18	N
ATOM	1996 CA ILE A 350	-4.278 37.609 34.540 1.00 23.99	C
ATOM	1998 CB ILE A 350 -	-4.933 37.800 33.128 1.00 24.26	C
ATOM	2000 CG1 ILE A 350	-6.324 38.448 33.230 1.00 24.09	C
ATOM	2003 CD1 ILE A 350	-6.874 39.041 31.931 1.00 22.81	C
ATOM	2007 CG2 ILE A 350	-5.044 36.428 32.384 1.00 23.98	C
ATOM	2011 C ILE A 350 -3	3.007 36.795 34.367 1.00 24.02	С
ATOM	2012 O ILE A 350 -3	3.006 35.599 34.602 1.00 23.50	Ο
ATOM	2013 N ASN A 351	-1.939 37.437 33.900 1.00 24.57	N
ATOM	2015 CA ASN A 351	-0.691 36.723 33.604 1.00 24.66	C
ATOM	2017 CB ASN A 351	0.256 37.568 32.756 1.00 24.65	C
ATOM	2020 CG ASN A 351	-0.263 37.755 31.365 1.00 24.79	С
ATOM	2021 OD1 ASN A 351	-0.740 36.809 30.730 1.00 25.11	О
ATOM	2022 ND2 ASN A 351	-0.222 38.982 30.892 1.00 24.98	N
ATOM	2025 C ASN A 351	0.012 36.151 34.830 1.00 24.62	С
ATOM	2026 O ASN A 351	0.413 34.991 34.802 1.00 24.84	O
		0.185 36.928 35.896 1.00 24.40	N
ATOM	2028 CA PRO A 352	0.565 36.314 37.173 1.00 24.15	С
	2030 CB PRO A 352	0.393 37.454 38.176 1.00 23.99	С
ATOM	2033 CG PRO A 352	0.645 38.687 37.385 1.00 23.81	С

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ATOM 2036 CD PRO A 352 0.145 38.402 35.981 1.00 24.27 C ATOM 2039 C PRO A 352 -0.305 35.097 37.501 1.00 24.08 C ATOM 2040 O PRO A 352 0.268 34.092 37.910 1.00 24.00 0 ATOM 2041 N ILE A 353 -1.622 35.160 37.281 1.00 24.06 N ATOM 2043 CA ILE A 353 -2.513 34.032 37.611 1.00 24.11 C ATOM 2045 CB ILE A 353 -4.027 34.332 37.278 1.00 23.92 C ATOM 2047 CG1 ILE A 353 -4.660 35.407 38.154 1.00 24.70 C ATOM 2050 CD1 ILE A 353 -3.813 35.848 39.332 1.00 28.00 C ATOM 2054 CG2 ILE A 353 -4.852 33.114 37.471 1.00 24.44 C ATOM 2058 C ILE A 353 -2.070 32.773 36.862 1.00 23.97 C -1.991 31.685 37.436 1.00 23.72 ATOM 2059 O ILE A 353 O ATOM 2060 N PHE A 354 -1.780 32.923 35.576 1.00 23.97 N ATOM 2062 CA PHE A 354 -1.463 31.771 34.734 1.00 23.93 C ATOM 2064 CB PHE A 354 -1.866 32.054 33.272 1.00 23.88 C ATOM 2067 CG PHE A 354 -3.334 31.845 33.018 1.00 24.57 C ATOM 2068 CD1 PHE A 354 -4.239 32.879 33.188 1.00 25.04 C ATOM 2070 CE1 PHE A 354 -5.604 32.668 32.990 1.00 25.36 C ATOM 2072 CZ PHE A 354 -6.070 31.415 32.643 1.00 25.16 C ATOM 2074 CE2 PHE A 354 -5.180 30.369 32.490 1.00 25.40 C ATOM 2076 CD2 PHE A 354 -3.819 30.585 32.680 1.00 25.46 C ATOM 2078 C PHE A 354 -0.001 31.293 34.882 1.00 23.75 C ATOM 2079 O PHE A 354 0.270 30.083 34.804 1.00 23.50 0 ATOM 2080 N GLU A 355 0.917 32.232 35.123 1.00 23.45 N ATOM 2082 CA GLU A 355 2.310 31.906 35.396 1.00 23.77 C ATOM 2084 CB GLU A 355 3.191 33.166 35.490 1.00 24.05 C ATOM 2087 CG GLU A 355 4.057 33.423 34.254 1.00 25.53 \mathbf{C} ATOM 2090 CD GLU A 355 3.785 34.762 33.557 1.00 26.68 \mathbf{C} ATOM 2091 OE1 GLU A 355 4.011 34.839 32.322 1.00 23.23 0 ATOM 2092 OE2 GLU A 355 3.366 35.736 34.252 1.00 28.60 0 ATOM 2093 C GLU A 355 2.387 31.116 36.691 1.00 23.77 C 2.991 30.045 36.724 1.00 24.34 ATOM 2094 O GLU A 355 0 ATOM 2095 N PHE A 356 1.771 31.641 37.751 1.00 23.44 N ATOM 2097 CA PHE A 356 1.651 30.923 39.019 1.00 23.10 C ATOM 2099 CB PHE A 356 0.796 31.718 40.027 1.00 22.91 C ATOM 2102 CG PHE A 356 0.654 31.026 41.356 1.00 22.02 C ATOM 2103 CD1 PHE A 356 1.719 30.958 42.226 1.00 20.17 C ATOM 2105 CE1 PHE A 356 1.597 30.305 43.438 1.00 19.63 C ATOM 2107 CZ PHE A 356 0.424 29.682 43.779 1.00 19.39 C ATOM 2109 CE2 PHE A 356 -0.629 29.712 42.920 1.00 19.39 C ATOM 2111 CD2 PHE A 356 -0.520 30.384 41.708 1.00 20.33 C ATOM 2113 C PHE A 356 1.079 29.496 38.863 1.00 23.18 C ATOM 2114 O PHE A 356 1.585 28.567 39.485 1.00 22.73 0 ATOM 2115 N SER A 357 0.036 29.340 38.047 1.00 23.58 N ATOM 2117 CA SER A 357 -0.638 28.052 37.853 1.00 24.38 C ATOM 2119 CB SER A 357 -1.936 28.239 37.079 1.00 24.48 C ATOM 2122 OG SER A 357 -2.976 28.664 37.937 1.00 26.05 0 ATOM 2124 C SER A 357 0.200 27.009 37.128 1.00 24.85 C ATOM 2125 O SER A 357 0.182 25.831 37.494 1.00 24.59 0

ATOM	2126 N ARG A 358	0.917 27.425 36.088 1.00 25.95	N
		1.782 26.483 35.367 1.00 27.12	С
ATOM	2130 CB ARG A 358	1.976 26.867 33.880 1.00 27.46	С
ATOM	2133 CG ARG A 358	3.024 27.913 33.582 1.00 29.56	C
		3.154 28.226 32.100 1.00 31.01	С
		2.012 28.996 31.601 1.00 32.84	N
ATOM	2141 CZ ARG A 358	1.958 30.329 31.508 1.00 33.59	C
ATOM	2142 NH1 ARG A 358	2.985 31.089 31.893 1.00 33.79	N
ATOM	2145 NH2 ARG A 358	0.857 30.907 31.028 1.00 33.55	N
ATOM	2148 C ARG A 358	3.103 26.224 36.112 1.00 27.17	C
ATOM	2149 O ARG A 358	3.757 25.196 35.886 1.00 27.45	О
ATOM	2150 N ALA A 359	3.460 27.129 37.022 1.00 27.10	N
ATOM	2152 CA ALA A 359	4.512 26.874 37.990 1.00 27.03	С
ATOM	2154 CB ALA A 359	4.853 28.144 38.735 1.00 27.05	С
		4.075 25.781 38.969 1.00 27.46	C
ATOM	2159 O ALA A 359	4.809 24.807 39.187 1.00 27.65	O
ATOM	2160 N MET A 360	2.880 25.933 39.546 1.00 27.66	N
		2.373 24.975 40.525 1.00 28.05	С
		0.987 25.384 41.046 1.00 28.08	С
		0.942 26.547 42.071 1.00 27.69	С
		1.915 26.352 43.592 1.00 27.13	S
		1.595 24.685 44.069 1.00 28.65	С
		2.291 23.574 39.927 1.00 28.76	С
		2.481 22.576 40.622 1.00 28.81	0
		2.014 23.497 38.632 1.00 29.78	N
		1.901 22.209 37.987 1.00 30.55	С
		1.279 22.306 36.595 1.00 31.44	С
		0.297 21.164 36.300 1.00 34.83	С
ATOM	2187 CD ARG A 361	-0.993 21.243 37.162 1.00 38.23	С
		-1.927 20.156 36.869 1.00 40.93	N
		-2.863 19.711 37.706 1.00 43.79	
		-3.008 20.246 38.929 1.00 44.27	N
ATOM	2196 NH2 ARG A 361	-3.661 18.710 37.323 1.00 44.88	N
ATOM	2199 C ARG A 361	3.246 21.565 37.896 1.00 30.15	С
ATOM	2200 O ARG A 361	3.359 20.371 38.107 1.00 30.69	О
ATOM	2201 N ARG A 362	4.276 22.337 37.585 1.00 29.71	N
ATOM	2203 CA ARG A 362	5.604 21.754 37.443 1.00 29.44	С
ATOM	2205 CB ARG A 362	6.588 22.765 36.849 1.00 29.94	С
ATOM	2208 CG ARG A 362	6.363 23.028 35.349 1.00 31.37	С
ATOM	2211 CD ARG A 362	7.317 24.070 34.731 1.00 33.77	С
ATOM	2214 NE ARG A 362	6.811 25.447 34.850 1.00 35.63	N
	2216 CZ ARG A 362	7.316 26.403 35.645 1.00 36.81	С
ATOM	2217 NH1 ARG A 362	8.367 26.174 36.434 1.00 36.78	N
ATOM	2220 NH2 ARG A 362	6.744 27.610 35.655 1.00 37.45	N
ATOM	2223 C ARG A 362	6.099 21.209 38.776 1.00 28.50	C
ATOM	2224 O ARG A 362	7.013 20.396 38.805 1.00 28.18	0
ATOM	2225 N LEU A 363	5.483 21.656 39.872 1.00 27.78	N
ATOM	2227 CA LEU A 363	5.747 21.103 41.203 1.00 27.03	С

ATOM	2229 CB LEU A 363	5.261 22.052 42.294 1.00 27.15	С
ATOM	2232 CG LEU A 363	6.317 22.968 42.901 1.00 27.99	С
ATOM	2234 CD1 LEU A 363	5.718 23.584 44.144 1.00 28.97	С
ATOM	2238 CD2 LEU A 363	7.639 22.267 43.221 1.00 27.80	С
ATOM	2242 C LEU A 363	5.086 19.760 41.414 1.00 26.11	С
ATOM	2243 O LEU A 363	5.516 18.993 42.264 1.00 25.45	O
ATOM	2244 N GLY A 364	3.998 19.520 40.683 1.00 25.50	N
ATOM	2246 CA GLY A 364	3.311 18.232 40.658 1.00 24.98	С
ATOM	2249 C GLY A 364	2.745 17.795 42.004 1.00 24.25	С
ATOM	2250 O GLY A 364	2.925 16.642 42.406 1.00 23.67	0
ATOM	2251 N LEU A 365	2.074 18.711 42.703 1.00 23.67	N
ATOM	2253 CA LEU A 365	1.633 18.436 44.064 1.00 23.27	C
ATOM	2255 CB LEU A 365	1.135 19.691 44.766 1.00 23.36	С
ATOM	2258 CG LEU A 365	2.081 20.897 44.888 1.00 23.89	C
ATOM	2260 CD1 LEU A 365	1.566 21.799 46.021 1.00 24.37	С
ATOM	2264 CD2 LEU A 365	3.522 20.500 45.144 1.00 23.24	С
ATOM	2268 C LEU A 365	0.519 17.450 43.954 1.00 22.78	C
ATOM	2269 O LEU A 365	-0.112 17.370 42.916 1.00 22.26	O
ATOM	2270 N ASP A 366	0.308 16.674 45.004 1.00 22.71	N
ATOM	2272 CA ASP A 366	-0.795 15.727 45.029 1.00 22.95	C
ATOM	2274 CB ASP A 366	-0.336 14.301 45.373 1.00 23.14	C
ATOM	2277 CG ASP A 366	0.253 14.182 46.751 1.00 23.28	C
ATOM	2278 OD1 ASP A 366	-0.120 14.985 47.633 1.00 23.31	O
ATOM	2279 OD2 ASP A 366	1.106 13.311 47.033 1.00 22.90	Ο
ATOM	2280 C ASP A 366	-1.800 16.272 45.999 1.00 22.93	C
ATOM	2281 O ASP A 366	-1.631 17.377 46.495 1.00 23.08	O
ATOM	2282 N ASP A 367	-2.845 15.515 46.268 1.00 22.85	N
ATOM	2284 CA ASP A 367	-3.944 16.038 47.053 1.00 23.13	C
ATOM	2286 CB ASP A 367	-5.094 15.076 46.957 1.00 23.79	С
ATOM	2289 CG ASP A 367	-5.767 15.134 45.615 1.00 26.26	С
ATOM	2290 OD1 ASP A 367	-5.410 16.052 44.832 1.00 29.21	O
		-6.672 14.327 45.278 1.00 29.18	O
ATOM	2292 C ASP A 367	-3.604 16.285 48.513 1.00 22.72	C
		-4.091 17.240 49.098 1.00 23.37	O
	2294 N ALA A 368	-2.782 15.427 49.105 1.00 22.13	N
	2296 CA ALA A 368	-2.327 15.625 50.473 1.00 21.71	С
	2298 CB ALA A 368	-1.598 14.398 50.954 1.00 21.22	С
	2302 C ALA A 368	-1.434 16.880 50.618 1.00 22.03	С
	2303 O ALA A 368	-1.474 17.563 51.641 1.00 22.09	О
	2304 N GLU A 369	-0.628 17.179 49.599 1.00 21.94	N
	2306 CA GLU A 369	0.285 18.310 49.650 1.00 21.54	С
	2308 CB GLU A 369	1.361 18.159 48.582 1.00 21.65	C
	2311 CG GLU A 369	2.375 17.068 48.907 1.00 21.25	C
	2314 CD GLU A 369	3.307 16.706 47.741 1.00 22.31	C
	2315 OE1 GLU A 369	4.524 16.482 47.989 1.00 24.33	0
		2.847 16.614 46.580 1.00 19.72	0
	2317 C GLU A 369	-0.484 19.627 49.512 1.00 21.69	C
ATOM	2318 O GLU A 369	-0.353 20.493 50.340 1.00 21.18	0

ATOM	2319 N TYR A 370	-1.299 19.767 48.473 1.00 22.31	N
		-2.213 20.909 48.342 1.00 22.52	С
	2323 CB TYR A 370		Ċ
	2326 CG TYR A 370		Č
		-2.414 20.594 44.801 1.00 27.31	C
	2329 CE1 TYR A 370		Ċ
ATOM			c
ATOM		-1.540 23.144 42.305 1.00 28.74	o
	2334 CE2 TYR A 370		C
	2336 CD2 TYR A 370		C
	2338 C TYR A 370	-2.997 21.160 49.616 1.00 22.24	c
		-3.099 22.293 50.059 1.00 22.15	Ö
		-3.605 20.120 50.179 1.00 22.32	N
		-4.424 20.293 51.395 1.00 22.38	C
			C
ATOM		-5.081 18.983 51.810 1.00 22.91	
	2348 C ALA A 371		C
	2349 O ALA A 371	-4.029 21.783 53.221 1.00 22.36	0
	2350 N LEU A 372	-2.423 20.264 52.788 1.00 21.19	N
		-1.548 20.728 53.842 1.00 20.94	C
	2354 CB LEU A 372		C
	2357 CG LEU A 372		C
	2359 CD1 LEU A 372	0.647 17.533 54.603 1.00 21.62	C
ATOM			C
	2367 C LEU A 372	-1.076 22.161 53.583 1.00 21.01	C
	2368 O LEU A 372	-0.946 22.924 54.517 1.00 21.41	O
	2369 N LEU A 373	-0.814 22.537 52.330 1.00 20.84	N
		-0.300 23.880 52.027 1.00 20.73	C
		0.039 24.071 50.541 1.00 20.52	C
		1.497 24.213 50.098 1.00 23.13	C
ATOM	2378 CD1 LEU A 373	1.572 24.764 48.623 1.00 24.98	C
ATOM	2382 CD2 LEU A 373	2.362 25.070 51.047 1.00 23.54	C
ATOM	2386 C LEU A 373	-1.389 24.855 52.418 1.00 20.65	C
ATOM	2387 O LEU A 373	-1.126 25.974 52.905 1.00 20.59	Ο
ATOM	2388 N ILE A 374	-2.622 24.424 52.192 1.00 20.20	N
ATOM	2390 CA ILE A 374	-3.734 25.283 52.438 1.00 20.59	C
ATOM	2392 CB ILE A 374	-4.983 24.733 51.747 1.00 21.07	C
ATOM	2394 CG1 ILE A 374	-4.884 25.002 50.231 1.00 21.83	С
ATOM	2397 CD1 ILE A 374	-5.961 24.254 49.403 1.00 21.74	С
	2401 CG2 ILE A 374	-6.275 25.365 52.303 1.00 20.76	С
	2405 C ILE A 374	-3.886 25.464 53.945 1.00 20.73	С
ATOM	2406 O ILE A 374	-4.139 26.567 54.424 1.00 20.91	0
	2407 N ALA A 375	-3.702 24.393 54.697 1.00 20.78	N
	2409 CA ALA A 375	-3.782 24.473 56.148 1.00 20.75	C
	2411 CB ALA A 375	-3.617 23.067 56.772 1.00 20.83	Č
	2415 C ALA A 375	-2.715 25.434 56.682 1.00 20.38	c
	2416 O ALA A 375	-2.988 26.241 57.574 1.00 20.16	ŏ
	2417 N ILE A 376	-1.517 25.336 56.113 1.00 19.84	N
	2419 CA ILE A 376	-0.377 26.141 56.543 1.00 20.41	C
2 1 1 0 1 7 1	17 O.1 IDD 11 5 / O	0.577 201112 001515 1100 20171	_

ATOM	2421 CB ILE A 376	0.897 25.644 55.826 1.00 20.33	С
		1.370 24.310 56.403 1.00 19.99	C
		2.304 23.568 55.506 1.00 20.71	č
		1.986 26.677 55.945 1.00 20.98	Č
		.600 27.647 56.236 1.00 20.55	C
		.224 28.543 57.002 1.00 19.68	Ö
		1.225 27.878 55.088 1.00 20.81	N
		-1.513 29.200 54.614 1.00 21.04	C
		-1.989 29.136 53.153 1.00 21.22	Č
		-2.338 30.505 52.598 1.00 22.27	Č
	-	-3.408 31.081 52.914 1.00 24.56	C
		-1.448 31.043 51.798 1.00 20.25	N
		2.541 29.862 55.512 1.00 20.84	C
		2.489 31.089 55.740 1.00 20.38	Ö
		.462 29.053 56.034 1.00 21.08	N
		4.529 29.562 56.892 1.00 21.21	C
		5.634 28.531 57.127 1.00 21.70	Č
		-6.486 28.327 55.853 1.00 20.73	C
		-7.264 27.065 55.878 1.00 19.57	Č
		-6.544 28.984 58.301 1.00 22.97	Č
		.961 30.003 58.203 1.00 21.49	C
		.394 31.034 58.713 1.00 21.85	O
		2.974 29.263 58.733 1.00 21.69	N
		-2.409 29.556 60.067 1.00 21.80	С
ATOM	2473 CB PHE A 379	-2.147 28.276 60.911 1.00 21.76	C
ATOM	2476 CG PHE A 379	-3.395 27.467 61.220 1.00 20.36	C
ATOM	2477 CD1 PHE A 379	-3.511 26.143 60.786 1.00 18.89	C
ATOM	2479 CE1 PHE A 379	-4.645 25.422 61.064 1.00 19.73	C
ATOM	2481 CZ PHE A 379	-5.682 25.999 61.769 1.00 18.74	C
ATOM	2483 CE2 PHE A 379	-5.569 27.309 62.205 1.00 19.76	C
ATOM	2485 CD2 PHE A 379	-4.436 28.028 61.937 1.00 18.90	C
ATOM	2487 C PHE A 379 -	1.139 30.352 59.931 1.00 22.55	C
ATOM	2488 O PHE A 379 -	0.090 29.996 60.482 1.00 22.46	0
ATOM	2489 N SER A 380 -:	1.243 31.458 59.209 1.00 23.76	N
ATOM	2491 CA SER A 380	-0.127 32.382 59.072 1.00 24.35	C
ATOM	2493 CB SER A 380 -	-0.124 33.029 57.692 1.00 24.13	C
ATOM	2496 OG SER A 380	-0.345 32.064 56.683 1.00 23.05	0
ATOM	2498 C SER A 380 -0	0.309 33.418 60.160 1.00 25.51	C
ATOM	2499 O SER A 380 -1	1.213 34.264 60.083 1.00 26.09	O
ATOM		0.531 33.340 61.188 1.00 26.69	N
ATOM	2502 CA ALA A 381	0.394 34.212 62.362 1.00 27.65	C
ATOM	2504 CB ALA A 381	1.430 33.806 63.463 1.00 27.30	C
		0.475 35.749 62.051 1.00 28.30	C
		0.037 36.573 62.889 1.00 28.65	O
		0.996 36.122 60.867 1.00 28.16	N
		1.318 37.531 60.572 1.00 28.54	C
		2.667 37.575 59.922 1.00 28.78	С
ATOM	2517 CG ASP A 382	2.584 37.247 58.492 1.00 29.48	C

ATOM 2518 OD1 ASP A 382 2.104 36.136 58.165 1.00 26.57 0 ATOM 2519 OD2 ASP A 382 2.930 38.082 57.641 1.00 34.31 0 ATOM 2520 C ASP A 382 0.313 38.290 59.662 1.00 28.41 C ATOM 2521 O ASP A 382 0.647 39.262 58.988 1.00 29.03 0 ATOM 2522 N ARG A 383 -0.926 37.830 59.647 1.00 27.87 N ATOM 2524 CA ARG A 383 -1.977 38.477 58.903 1.00 26.83 -3.180 37.536 58.794 1.00 26.90 ATOM 2526 CB ARG A 383 ATOM 2529 CG ARG A 383 -2.886 36.172 58.168 1.00 24.71 C ATOM 2532 CD ARG A 383 -2.247 36.284 56.835 1.00 22.46 C ATOM 2535 NE ARG A 383 -2.429 35.078 56.039 1.00 22.63 N ATOM .2537 CZ ARG A 383 -2.277 35.011 54.710 1.00 21.78 C ATOM 2538 NH1 ARG A 383 -1.911 36.096 54.033 1.00 22.59 N ATOM 2541 NH2 ARG A 383 -2.485 33.864 54.054 1.00 20.10 N ATOM 2544 C ARG A 383 -2.364 39.711 59.685 1.00 26.73 C ATOM 2545 O ARG A 383 -2.115 39.785 60.871 1.00 26.44 0 ATOM 2546 N PRO A 384 -2.949 40.699 59.029 1.00 26.91 ATOM 2547 CA PRO A 384 -3.443 41.871 59.740 1.00 26.93 C ATOM 2549 CB PRO A 384 -4.153 42.678 58.656 1.00 26.92 C ATOM 2552 CG PRO A 384 -3.746 42.114 57.368 1.00 26.82 C ATOM 2555 CD PRO A 384 -3.150 40.806 57.577 1.00 27.16 C ATOM 2558 C PRO A 384 -4.441 41.457 60.795 1.00 26.78 C ATOM 2559 O PRO A 384 -5.121 40.441 60.606 1.00 26.63 0 ATOM 2560 N ASN A 385 -4.493 42.233 61.874 1.00 26.52 N ATOM 2562 CA ASN A 385 -5.530 42.137 62.905 1.00 26.44 C -6.920 42.470 62.317 1.00 26.43 ATOM 2564 CB ASN A 385 C ATOM 2567 CG ASN A 385 -7.051 43.921 61.879 1.00 25.91 \mathbf{C} ATOM 2568 OD1 ASN A 385 -6.402 44.828 62.419 1.00 25.48 0 ATOM 2569 ND2 ASN A 385 -7.913 44.148 60.907 1.00 24.36 N ATOM 2572 C ASN A 385 -5.600 40.827 63.702 1.00 26.20 C ATOM 2573 O ASN A 385 -6.591 40.589 64.387 1.00 26.57 0 ATOM 2574 N VAL A 386 -4.553 40.007 63.661 1.00 25.70 N ATOM 2576 CA VALA 386 -4.521 38.785 64.451 1.00 25.44 C ATOM 2578 CB VAL A 386 -3.567 37.770 63.833 1.00 25.52 ATOM 2580 CG1 VAL A 386 -3.157 36.694 64.848 1.00 26.16 C ATOM 2584 CG2 VAL A 386 -4.232 37.137 62.635 1.00 25.40 \mathbf{C} ATOM 2588 C VAL A 386 -4.149 39.078 65.905 1.00 25.38 C ATOM 2589 O VAL A 386 -3.061 39.545 66.197 1.00 25.07 0 ATOM 2590 N GLN A 387 -5.073 38.791 66.811 1.00 25.79 N ATOM 2592 CA GLN A 387 -4.911 39.093 68.229 1.00 26.17 C ATOM 2594 CB GLN A 387 -6.295 39.216 68.904 1.00 26.48 ATOM 2597 CG GLN A 387 -7.088 40.481 68.475 1.00 28.11 \mathbf{C} ATOM 2600 CD GLN A 387 -8.426 40.650 69.216 1.00 31.36 C ATOM 2601 OE1 GLN A 387 -8.449 40.881 70.443 1.00 31.98 0 ATOM 2602 NE2 GLN A 387 -9.542 40.555 68.471 1.00 32.05 N ATOM 2605 C GLN A 387 -4.007 38.089 68.953 1.00 25.93 C ATOM 2606 O GLN A 387 -3.273 38.469 69.861 1.00 25.80 0 ATOM 2607 N GLU A 388 -4.033 36.827 68.517 1.00 25.99 N ATOM 2609 CA GLU A 388 -3.272 35.729 69.146 1.00 26.03 C

ATOM 2611 CB GLU A 388 -4.235 34.652 69.672 1.00 26.23 C ATOM 2614 CG GLU A 388 -5.309 35.179 70.609 1.00 27.00 C ATOM 2617 CD GLU A 388 -5.828 34.133 71.581 1.00 28.08 ATOM 2618 OE1 GLU A 388 -6.191 33.011 71.159 1.00 28.82 0 ATOM 2619 OE2 GLU A 388 -5.901 34.448 72.780 1.00 29.76 0 ATOM 2620 C GLU A 388 -2.269 35.065 68.192 1.00 25.65 C ATOM 2621 O GLU A 388 -2.452 33.901 67.811 1.00 25.73 0 ATOM 2622 N PRO A 389 -1.220 35.789 67.800 1.00 25.08 N ATOM 2623 CA PRO A 389 -0.245 35.269 66.836 1.00 24.68 C ATOM 2625 CB PRO A 389 0.675 36.475 66.599 1.00 24.77 C ATOM 2628 CG PRO A 389 0.514 37.324 67.759 1.00 24.58 C ATOM 2631 CD PRO A 389 -0.897 37.167 68.208 1.00 24.91 C ATOM 2634 C PRO A 389 0.559 34.059 67.322 1.00 24.43 C ATOM 2635 O PRO A 389 0.934 33.206 66.520 1.00 24.28 0 ATOM 2636 N GLY A 390 0.835 34.001 68.620 1.00 24.41 N ATOM 2638 CA GLY A 390 1.469 32.842 69.227 1.00 24.29 C ATOM 2641 C GLY A 390 0.642 31.565 69.086 1.00 24.54 C ATOM 2642 O GLY A 390 1.192 30.507 68.758 1.00 24.52 0 ATOM 2643 N ARG A 391 -0.674 31.649 69.311 1.00 24.39 N ATOM 2645 CA ARG A 391 -1.537 30.480 69.177 1.00 24.60 C ATOM 2647 CB ARG A 391 -2.937 30.728 69.739 1.00 24.91 ATOM 2650 CG ARG A 391 C -2.931 31.219 71.174 1.00 28.18 ATOM 2653 CD ARG A 391 -4.110 30.745 72.041 1.00 32.93 C ATOM 2656 NE ARG A 391 -5.295 30.355 71.260 1.00 36.71 N ATOM 2658 CZ ARG A 391 -5.933 29.178 71.363 1.00 41.04 C ATOM 2659 NH1 ARG A 391 -5.504 28.232 72.215 1.00 43.07 N -7.015 28.936 70.607 1.00 40.78 ATOM 2662 NH2 ARG A 391 N ATOM 2665 C ARG A 391 -1.640 30.049 67.726 1.00 24.04 C ATOM 2666 O ARG A 391 -1.743 28.855 67.445 1.00 24.57 0 ATOM 2667 N VAL A 392 -1.610 31.004 66.802 1.00 23.34 N ATOM 2669 CA VAL A 392 -1.699 30.675 65.385 1.00 22.50 \mathbf{C} ATOM 2671 CB VAL A 392 -2.007 31.906 64.539 1.00 22.35 \mathbf{C} ATOM 2673 CG1 VAL A 392 -1.875 31.590 63.059 1.00 21.93 C ATOM 2677 CG2 VAL A 392 -3.413 32.420 64.865 1.00 22.07 \mathbf{C} ATOM 2681 C VAL A 392 -0.410 30.014 64.928 1.00 22.29 ATOM 2682 O VAL A 392 -0.459 29.037 64.197 1.00 22.06 0 ATOM 2683 N GLU A 393 0.741 30.505 65.375 1.00 22.38 N ATOM 2685 CA GLU A 393 2.000 29.902 64.929 1.00 23.18 C 3.233 30.735 65.318 1.00 23.56 ATOM 2687 CB GLU A 393 \mathbf{C} ATOM 2690 CG GLU A 393 4.539 30.125 64.805 1.00 24.92 ATOM 2693 CD GLU A 393 5.749 31.038 64.954 1.00 27.27 \mathbf{C} ATOM 2694 OE1 GLU A 393 6.631 31.069 64.069 1.00 30.57 0 ATOM 2695 OE2 GLU A 393 5.849 31.703 65.977 1.00 30.03 0 ATOM 2696 C GLU A 393 2.160 28.460 65.429 1.00 23.15 C ATOM 2697 O GLU A 393 2.738 27.617 64.729 1.00 23.90 0 ATOM 2698 N ALA A 394 1.640 28.177 66.623 1.00 22.56 N ATOM 2700 CA ALA A 394 1.704 26.839 67.180 1.00 21.86 C ATOM 2702 CB ALA A 394 1.337 26.847 68.667 1.00 21.66 C

ATOM	2706 C ALA A 394	0.794 25.919 66.389 1.00 21.49	С
ATOM	2707 O ALA A 394	1.110 24.758 66.206 1.00 20.85	0
ATOM	2708 N LEU A 395	-0.344 26.425 65.915 1.00 21.67	N
ATOM	2710 CA LEU A 395	-1.212 25.612 65.037 1.00 21.93	С
ATOM	2712 CB LEU A 395	-2.577 26.268 64.833 1.00 22.07	С
ATOM	2715 CG LEU A 395	-3.454 26.406 66.085 1.00 23.60	C
ATOM	2717 CD1 LEU A 395	-4.753 27.161 65.747 1.00 23.46	С
ATOM	2721 CD2 LEU A 395	-3.770 25.073 66.709 1.00 24.27	C
ATOM	2725 C LEU A 395	-0.548 25.304 63.672 1.00 21.30	C
ATOM	2726 O LEU A 395	-0.693 24.209 63.134 1.00 20.06	O
ATOM	2727 N GLN A 396	0.208 26.256 63.145 1.00 21.27	N
ATOM	2729 CA GLN A 396	0.908 26.020 61.893 1.00 21.75	C
ATOM	2731 CB GLN A 396	1.681 27.246 61.426 1.00 21.90	C
ATOM	2734 CG GLN A 396	1.919 27.177 59.945 1.00 21.80	C
ATOM	2737 CD GLN A 396	2.598 28.386 59.409 1.00 21.70	C
ATOM	2738 OE1 GLN A 396	2.052 29.057 58.532 1.00 24.11	0
ATOM	2739 NE2 GLN A 396	3.787 28.674 59.903 1.00 19.79	N
ATOM-	2742 C GLN A 396		C
ATOM	2743 O GLN A 396	1.908 23.996 61.128 1.00 21.54	O
ATOM	2744 N GLN A 397	2.641 24.879 63.080 1.00 21.23	N
		3.788 23.997 63.248 1.00 21.05	C
		4.347 24.082 64.680 1.00 21.37	C
		5.532 23.159 64.942 1.00 24.36	C
		6.140 23.289 66.353 1.00 28.63	C
		6.069 24.359 66.995 1.00 30.75	O
		6.758 22.198 66.827 1.00 29.08	N
	2759 C GLN A 397		C
	2760 O GLN A 397		O
	2761 N PRO A 398		N
		2.304 20.475 63.055 1.00 19.27	C
		1.093 20.046 63.932 1.00 18.97	C
		0.577 21.261 64.580 1.00 19.38	C
	2770 CD PRO A 398	1.579 22.373 64.401 1.00 19.53	С
	2773 C PRO A 398		C
	2774 O PRO A 398		0
	2775 N TYR A 399		N
		1.100 20.973 59.479 1.00 19.20	C
	2779 CB TYR A 399	0.005 21.966 59.000 1.00 19.17	C
	2782 CG TYR A 399	-1.355 21.732 59.618 1.00 18.45	C
	2783 CD1 TYR A 399	-1.829 22.549 60.636 1.00 18.83	C
	2785 CE1 TYR A 399	-3.057 22.320 61.232 1.00 17.80	C
	2787 CZ TYR A 399	-3.841 21.272 60.800 1.00 18.18	C
	2788 OH TYR A 399	-5.081 21.058 61.386 1.00 19.70	0
	2790 CE2 TYR A 399	-3.391 20.443 59.796 1.00 17.70	C
	2792 CD2 TYR A 399	-2.153 20.671 59.218 1.00 18.99	C
	2794 C TYR A 399	2.412 21.095 58.637 1.00 19.46	С
	2795 O TYR A 399		O N
AIUM	2796 N VAL A 400	3.248 22.051 58.999 1.00 20.04	N

ATOM	2798 CA VAL A 400	4.576 22.150 58.401 1.00 20.23	C
ATOM	2800 CB VAL A 400	5.335 23.373 58.923 1.00 19.99	С
ATOM	2802 CG1 VAL A 400	6.693 23.459 58.264 1.00 20.63	C
ATOM	2806 CG2 VAL A 400	4.545 24.631 58.611 1.00 18.88	C
ATOM	2810 C VAL A 400	5.356 20.856 58.610 1.00 20.10	C
ATOM	2811 O VAL A 400	5.874 20.301 57.662 1.00 19.94	O
ATOM	2812 N GLU A 401	5.385 20.383 59.851 1.00 20.78	N
ATOM	2814 CA GLU A 401	5.907 19.053 60.237 1.00 21.23	С
ATOM	2816 CB GLU A 401	5.662 18.795 61.744 1.00 21.63	С
ATOM	2819 CG GLU A 401	6.803 19.248 62.663 1.00 24.26	С
ATOM	2822 CD GLU A 401	6.540 19.034 64.151 1.00 26.48	С
ATOM	2823 OE1 GLU A 401	7.129 19.744 64.999 1.00 28.12	Ο
ATOM	2824 OE2 GLU A 401	5.746 18.144 64.479 1.00 29.48	Ο
ATOM	2825 C GLU A 401	5.334 17.886 59.407 1.00 20.90	C
ATOM	2826 O GLU A 401	6.073 17.001 58.972 1.00 20.52	O
ATOM	2827 N ALA A 402	4.023 17.889 59.188 1.00 20.76	N
ATOM	2829 CA ALA A 402	3.365 16.817 58.442 1.00 20.68	C
ATOM	2831 CB ALA A 402	1.869 16.916 58.596 1.00 20.69	C
ATOM	2835 C ALA A 402	3.744 16.876 56.978 1.00 20.91	C
ATOM	2836 O ALA A 402	3.914 15.863 56.324 1.00 20.41	О
ATOM	2837 N LEU A 403	3.896 18.085 56.464 1.00 21.89	N
ATOM	2839 CA LEU A 403	4.295 18.257 55.078 1.00 22.32	C
ATOM	2841 CB LEU A 403	4.143 19.707 54.644 1.00 22.16	C
ATOM	2844 CG LEU A 403	4.369 19.853 53.144 1.00 21.61	C
ATOM	2846 CD1 LEU A 403	3.587 18.856 52.322 1.00 20.69	C
ATOM	2850 CD2 LEU A 403	3.947 21.218 52.799 1.00 22.87	C
ATOM	2854 C LEU A 403	5.733 17.827 54.892 1.00 22.58	C
ATOM	2855 O LEU A 403	6.058 17.156 53.943 1.00 22.65	Ο
ATOM	2856 N LEU A 404	6.578 18.222 55.831 1.00 22.95	N
ATOM	2858 CA LEU A 404	7.988 17.888 55.804 1.00 23.22	C
ATOM	2860 CB LEU A 404	8.680 18.526 57.003 1.00 23.73	C
ATOM	2863 CG LEU A 404	10.167 18.248 57.246 1.00 25.22	C
ATOM	2865 CD1 LEU A 404	10.988 18.355 55.960 1.00 26.22	C
ATOM	2869 CD2 LEU A 404	10.661 19.235 58.317 1.00 25.99	C
ATOM	2873 C LEU A 404	8.186 16.389 55.807 1.00 22.91	C
ATOM	2874 O LEU A 404	8.788 15.852 54.905 1.00 23.02	Ο
ATOM	2875 N SER A 405	7.683 15.710 56.825 1.00 23.04	N
ATOM	2877 CA SER A 405	7.651 14.251 56.821 1.00 23.28	C
ATOM	2879 CB SER A 405	6.783 13.714 57.965 1.00 23.37	C
ATOM	2882 OG SER A 405	7.253 14.169 59.216 1.00 25.09	Ο
ATOM	2884 C SER A 405	7.110 13.688 55.498 1.00 23.06	C
ATOM	2885 O SER A 405	7.705 12.763 54.935 1.00 22.72	0
ATOM	2886 N TYR A 406	5.997 14.249 55.006 1.00 22.61	N
ATOM	2888 CA TYR A 406	5.317 13.678 53.848 1.00 22.23	C
ATOM	2890 CB TYR A 406	3.977 14.351 53.587 1.00 22.04	С
ATOM	2893 CG TYR A 406	3.146 13.720 52.472 1.00 21.34	С
ATOM	2894 CD1 TYR A 406	2.099 12.831 52.747 1.00 20.83	C
ATOM	2896 CE1 TYR A 406	1.331 12.293 51.734 1.00 18.73	С

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ATOM 2898 CZ TYR A 406 1.620 12.628 50.449 1.00 19.07 C ATOM 2899 OH TYR A 406 0.919 12.123 49.410 1.00 19.33 0 ATOM 2901 CE2 TYR A 406 2.631 13.484 50.154 1.00 20.65 C 3.380 14.035 51.155 1.00 20.77 ATOM 2903 CD2 TYR A 406 C ATOM 2905 C TYR A 406 6.178 13.752 52.607 1.00 22.21 C ATOM 2906 O TYR A 406 6.249 12.785 51.862 1.00 22.49 0 ATOM 2907 N THR A 407 6.837 14.885 52.396 1.00 22.35 Ν 7.634 15.110 51.190 1.00 22.78 ATOM 2909 CA THR A 407 C ATOM 2911 CB THR A 407 7.900 16.620 50.935 1.00 22.45 C ATOM 2913 OG1 THR A 407 8.488 17.222 52.080 1.00 21.50 0 ATOM 2915 CG2 THR A 407 6.593 17.407 50.770 1.00 22.13 C ATOM 2919 C THR A 407 8.932 14.351 51.263 1.00 23.93 C ATOM 2920 O THR A 407 9.482 13.979 50.241 1.00 23.74 0 ATOM 2921 N ARG A 408 9.405 14.112 52.480 1.00 25.87 N ATOM 2923 CA ARG A 408 10.599 13.294 52.710 1.00 27.83 C ATOM 2925 CB ARG A 408 10.933 13.250 54.213 1.00 28.51 C ATOM 2928 CG ARG A 408 12.394 13.539 54.562 1.00 31.44 C ATOM 2931 CD ARG A 408 12.882 12.825 55.833 1.00 35.67 C ATOM 2934 NE ARG A 408 14.329 12.997 56.069 1.00 39.51 N ATOM 2936 CZ ARG A 408 14.903 14.064 56.646 1.00 41.72 C ATOM 2937 NH1 ARG A 408 14.166 15.110 57.068 1.00 43.38 N ATOM 2940 NH2 ARG A 408 16.227 14.090 56.794 1.00 40.97 N ATOM 2943 C ARG A 408 10.376 11.867 52.188 1.00 28.38 C ATOM 2944 O ARG A 408 11.152 11.347 51.398 1.00 28.05 0 ATOM 2945 N ILE A 409 9.281 11.268 52.642 1.00 29.53 N ATOM 2947 CA ILE A 409 8.872 9.924 52.265 1.00 30.35 C ATOM 2949 CB ILE A 409 7.666 9.467 53.175 1.00 30.47 C ATOM 2951 CG1 ILE A 409 8.186 8.932 54.520 1.00 31.08 C ATOM 2954 CD1 ILE A 409 7.398 9.410 55.744 1.00 31.67 C ATOM 2958 CG2 ILE A 409 6.795 8.411 52.500 1.00 30.57 C ATOM 2962 C ILE A 409 8.557 9.837 50.761 1.00 31.14 C ATOM 2963 O ILE A 409 9.217 9.071 50.071 1.00 31.25 0 ATOM 2964 N LYS A 410 7.589 10.624 50.259 1.00 32.00 N ATOM 2966 CA LYS A 410 7.123 10.541 48.850 1.00 32.62 ATOM 2968 CB LYS A 410 6.127 11.667 48.526 1.00 32.88 C ATOM 2971 CG LYS A 410 5.514 11.602 47.095 1.00 33.17 C ATOM 2974 CD LYS A 410 4.444 12.698 46.841 1.00 33.49 C ATOM 2977 CE LYS A 410 4.438 13.174 45.378 1.00 33.29 C ATOM 2980 NZ LYS A 410 3.211 13.935 45.003 1.00 32.16 N ATOM 2984 C LYS A 410 8.273 10.609 47.841 1.00 33.12 C ATOM 2985 O LYS A 410 8.434 9.725 46.983 1.00 33.01 0 ATOM 2986 N ARG A 411 9.053 11.679 47.948 1.00 33.44 N ATOM 2988 CA ARG A 411 10.242 11.862 47.136 1.00 33.71 C ATOM 2990 CB ARG A 411 10.072 13.060 46.168 1.00 34.06 C ATOM 2993 CG ARG A 411 8.655 13.228 45.502 1.00 35.84 C ATOM 2996 CD ARG A 411 8.454 12.449 44.177 1.00 38.37 C ATOM 2999 NE ARG A 411 7.134 12.657 43.528 1.00 40.21 N ATOM 3001 CZ ARG A 411 6.559 11.815 42.631 1.00 40.45 C

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ATOM 3002 NH1 ARG A 411 7.155 10.684 42.253 1.00 40.72 N ATOM 3005 NH2 ARG A 411 5.373 12.106 42.103 1.00 39.93 N ATOM 3008 C ARG A 411 11.444 12.014 48.097 1.00 33.34 C ATOM 3009 O ARG A 411 11.789 13.111 48.527 1.00 33.43 0 ATOM 3010 N PRO A 412 12.056 10.898 48.466 1.00 33.09 N ATOM 3011 CA PRO A 412 13.202 10.927 49.385 1.00 33.19 C ATOM 3013 CB PRO A 412 13.501 9.432 49.658 1.00 33.32 C ATOM 3016 CG PRO A 412 12.716 8.619 48.647 1.00 33.16 C ATOM 3019 CD PRO A 412 11.714 9.535 48.021 1.00 33.23 C 14.437 11.621 48.813 1.00 33.22 C ATOM 3022 C PRO A 412 ATOM 3023 O PRO A 412 15.207 12.229 49.575 1.00 33.03 0 ATOM 3024 N GLN A 413 14.607 11.535 47.493 1.00 33.27 N 15.813 12.018 46.816 1.00 33.09 ATOM 3026 CA GLN A 413 C ATOM 3028 CB GLN A 413 16.368 10.897 45.909 1.00 33.13 C ATOM 3031 CG GLN A 413 17.255 9.849 46.660 1.00 33.32 C ATOM 3034 CD GLN A 413 16.721 8.408 46.605 1.00 33.28 \mathbf{C} ATOM 3035 OE1 GLN A 413 15.538 8.160 46.850 1.00 33.33 0 ATOM 3036 NE2 GLN A 413 17.601 7.463 46.295 1.00 32.31 N ATOM 3039 C GLN A 413 15.544 13.340 46.054 1.00 32.88 C ATOM 3040 O GLN A 413 16.138 13.603 45.005 1.00 32.60 0 ATOM 3041 N ASP A 414 14.645 14.161 46.612 1.00 32.60 N ATOM 3043 CA ASP A 414 14.329 15.503 46.099 1.00 32.36 C ATOM 3045 CB ASP A 414 13.086 15.429 45.214 1.00 32.54 C ATOM 3048 CG ASP A 414 12.688 16.774 44.593 1.00 33.50 C ATOM 3049 OD1 ASP A 414 13.470 17.767 44.614 1.00 33.77 O ATOM 3050 OD2 ASP A 414 11.566 16.899 44.048 1.00 34.43 O ATOM 3051 C ASP A 414 14.136 16.463 47.295 1.00 31.92 C ATOM 3052 O ASP A 414 13.025 16.679 47.774 1.00 31.71 0 ATOM 3053 N GLN A 415 15.249 17.024 47.766 1.00 31.57 N ATOM 3055 CA GLN A 415 15.298 17.798 49.011 1.00 31.04 \mathbf{C} ATOM 3057 CB GLN A 415 16.736 17.897 49.508 1.00 31.40 C ATOM 3060 CG GLN A 415 17.240 16.632 50.162 1.00 32.60 C ATOM 3063 CD GLN A 415 18.712 16.677 50.389 1.00 33.34 \mathbf{C} ATOM 3064 OE1 GLN A 415 19.190 17.423 51.249 1.00 34.47 0 ATOM 3065 NE2 GLN A 415 19.450 15.903 49.607 1.00 34.47 N ATOM 3068 C GLN A 415 14.771 19.203 48.848 1.00 30.16 C ATOM 3069 O GLN A 415 14.345 19.817 49.821 1.00 29.98 0 ATOM 3070 N LEU A 416 14.820 19.722 47.626 1.00 29.18 N ATOM 3072 CA LEU A 416 14.357 21.082 47.378 1.00 28.42 \mathbf{C} ATOM 3074 CB LEU A 416 15.154 21.726 46.236 1.00 28.17 C ATOM 3077 CG LEU A 416 16.586 22.199 46.523 1.00 27.41 ATOM 3079 CD1 LEU A 416 16.934 23.258 45.535 1.00 27.48 C ATOM 3083 CD2 LEU A 416 16.809 22.721 47.931 1.00 26.83 C ATOM 3087 C LEU A 416 12.850 21.174 47.110 1.00 27.89 C ATOM 3088 O LEU A 416 12.302 22.268 47.082 1.00 27.47 0 ATOM 3089 N ARG A 417 12.191 20.037 46.920 1.00 27.59 N 10.733 20.005 46.738 1.00 27.42 ATOM 3091 CA ARG A 417 C ATOM 3093 CB ARG A 417 10.239 18.536 46.727 1.00 27.61

ATOM	3096	CG ARG A 417	8.781 18.282 47.141 1.00 29.03	C
ATOM	3099	CD ARG A 417	8.283 16.833 46.853 1.00 30.11	C
		NE ARG A 417		N
		CZ ARG A 417		С
			7.270 17.711 44.330 1.00 30.42	N
			5.132 17.105 44.929 1.00 29.49	N
ATOM	3111	C ARG A 417	10.026 20.853 47.815 1.00 26.58	С
			9.287 21.793 47.518 1.00 26.04	0
			10.294 20.540 49.068 1.00 26.04	N
			9.607 21.200 50.171 1.00 25.76	С
ATOM	3117	CB PHE A 418	9.929 20.450 51.455 1.00 26.07	C
ATOM	3120	CG PHE A 418	9.361 21.061 52.676 1.00 27.39	С
ATOM	3121	CD1 PHE A 418	8.010 21.270 52.791 1.00 29.73	C
			7.471 21.816 53.944 1.00 30.72	C
ATOM	3125	CZ PHE A 418	8.288 22.139 54.973 1.00 31.57	C
ATOM	3127	CE2 PHE A 418	9.656 21.926 54.861 1.00 32.00	C
ATOM	3129	CD2 PHE A 418	10.178 21.391 53.727 1.00 29.91	C
ATOM	3131	C PHE A 418	9.893 22.723 50.269 1.00 24.73	C
ATOM	3132	O PHE A 418	8.961 23.522 50.366 1.00 24.46	O
			11.155 23.132 50.252 1.00 23.55	N
			11.468 24.556 50.127 1.00 23.35	C
			12.977 24.571 49.841 1.00 22.97	C
			13.483 23.341 50.426 1.00 22.97	С
			12.372 22.320 50.405 1.00 23.54	С
		C PRO A 419	10.708 25.219 48.981 1.00 23.25	C
			10.217 26.313 49.196 1.00 23.56	O
			10.601 24.572 47.819 1.00 22.88	N
			9.949 25.168 46.648 1.00 22.69	C
			10.037 24.268 45.413 1.00 23.05	-
			11.344 24.320 44.644 1.00 24.92	Ċ
			11.224 23.727 43.233 1.00 28.27	
			12.522 23.475 42.601 1.00 31.30	
			13.271 22.382 42.803 1.00 34.58	C
			12.854 21.407 43.622 1.00 36.30	N
			14.449 22.251 42.183 1.00 34.12	N
		C ARG A 420		c
		O ARG A 420	7.939 26.438 46.524 1.00 21.89	Ö
		N MET A 421	7.856 24.504 47.675 1.00 21.52	Ň
			6.450 24.666 48.046 1.00 20.91	C
		CB MET A 421	5.937 23.429 48.739 1.00 20.70	C
		CG MET A 421	5.634 22.299 47.798 1.00 21.02	C
		SD MET A 421	5.218 20.786 48.673 1.00 19.95	S
		CE MET A 421	3.780 21.239 49.263 1.00 22.45	C
		C MET A 421	6.254 25.856 48.955 1.00 20.74	c
		O MET A 421	5.388 26.687 48.737 1.00 20.05	0
		N LEU A 422		N
		CA LEU A 422	6.961 27.067 50.892 1.00 21.96	
			7.972 26.920 52.048 1.00 22.35	C C
ATUM	2172	CB LEU A 422	1.912 20.920 32.040 1.00 22.33	C

ATOM	3195 CG LEU A 422	7.795 25.673 52.935 1.00 24.02	С
ATOM	3197 CD1 LEU A 422	8.797 25.640 54.084 1.00 25.62	С
ATOM	3201 CD2 LEU A 422	6.380 25.531 53.478 1.00 24.35	C
ATOM	3205 C LEU A 422	7.137 28.371 50.110 1.00 21.76	С
ATOM	3206 O LEU A 422	6.398 29.310 50.305 1.00 22.00	Ο
ATOM		8.078 28.408 49.175 1.00 21.60	N
ATOM	3209 CA MET A 423		С
ATOM		9.532 29.401 47.463 1.00 22.48	С
ATOM	3214 CG MET A 423		С
	3217 SD MET A 423		S
ATOM	3218 CE MET A 423	12.949 30.359 47.182 1.00 28.75	C
ATOM	3222 C MET A 423		С
ATOM	3223 O MET A 423	7.067 31.319 47.317 1.00 19.36	O
ATOM	3224 N LYS A 424	6.237 29.275 47.253 1.00 19.52	N
ATOM	3226 CA LYS A 424		C
ATOM	3228 CB LYS A 424		Č
ATOM		5.017 27.815 44.925 1.00 19.22	C
ATOM		5.115 28.752 43.726 1.00 21.18	Č
ATOM	3237 CE LYS A 424	5,767 28.077 42.502 1.00 22.94	C
ATOM		6.592 29.019 41.689 1.00 24.40	N
ATOM	3244 C LYS A 424	4.069 30.432 47.551 1.00 17.80	C
ATOM	3245 O LYS A 424	3.326 31.311 47.114 1.00 16.79	Ō
ATOM	3246 N LEU A 425		N
ATOM	3248 CA LEU A 425		C
ATOM		3.626 30.388 51.254 1.00 17.39	Ċ
ATOM	3253 CG LEU A 425	3.104 28.965 51.501 1.00 18.37	C
ATOM		3.355 28.612 52.939 1.00 19.31	С
ATOM	3259 CD2 LEU A 425		С
ATOM	3263 C LEU A 425	3.920 32.387 49.785 1.00 15.75	С
ATOM	3264 O LEU A 425		0
ATOM		5.195 32.600 49.518 1.00 15.73	N
ATOM		5.727 33.944 49.299 1.00 15.53	С
	3269 CB VAL A 426	7.229 33.908 48.979 1.00 15.20	C
	3271 CG1 VAL A 426	7.749 35.282 48.813 1.00 15.09	С
	3275 CG2 VAL A 426	7.992 33.187 50.059 1.00 15.76	С
	3279 C VAL A 426	5.053 34.578 48.106 1.00 15.52	С
	3280 O VAL A 426	4.640 35.721 48.137 1.00 15.24	O
	3281 N SER A 427	4.988 33.810 47.030 1.00 16.02	N
	3283 CA SER A 427	4.421 34.275 45.781 1.00 16.14	C
ATOM		4.534 33.173 44.720 1.00 16.06	C
ATOM	3288 OG SER A 427	5.854 33.124 44.199 1.00 16.93	О
ATOM	3290 C SER A 427	2.973 34.722 46.000 1.00 16.25	С
	3291 O SER A 427	2.595 35.800 45.561 1.00 15.92	0
	3292 N LEU A 428	2.195 33.908 46.723 1.00 16.53	N
ATOM	3294 CA LEU A 428	0.787 34.174 46.988 1.00 16.61	С
	3296 CB LEU A 428	0.197 33.089 47.851 1.00 16.85	C
	3299 CG LEU A 428	-0.058 31.775 47.107 1.00 18.38	C
ATOM	3301 CD1 LEU A 428	-0.363 30.689 48.151 1.00 18.87	С

ATOM	3305	CD2 LEU A 428	-1.199 31.859 46.064 1.00 18.12	С
			0.523 35.476 47.685 1.00 16.85	С
		O LEU A 428		Ö
			1.479 35.952 48.492 1.00 17.60	N
ATOM			1.358 37.220 49.219 1.00 17.77	C
			2.485 37.435 50.227 1.00 18.00	Č
			2.480 36.588 51.439 1.00 17.80	Č
			1.121 36.479 52.125 1.00 19.93	Č
			1.196 35.633 53.321 1.00 20.21	N
			1.457 36.083 54.542 1.00 20.19	C
ATOM			1.637 37.391 54.774 1.00 19.26	N
ATOM		NH2 ARG A 429		N
		C ARG A 429		C
		O ARG A 429	0.653 39.273 48.394 1.00 18.81	Ō
ATOM		N THR A 430		N
ATOM	3337	CA THR A 430	2.529 39.359 46.354 1.00 19.31	C
ATOM		CB THR A 430		С
			4.904 39.826 46.117 1.00 19.54	0
ATOM			3.696 39.744 44.136 1.00 20.15	C
ATOM	3347	C THR A 430	1.282 39.310 45.455 1.00 19.59	C
ATOM	3348	O THR A 430	0.760 40.363 45.058 1.00 19.15	0
ATOM	3349	N LEU A 431	0.817 38.089 45.161 1.00 19.65	N
ATOM	3351	CA LEU A 431	-0.321 37.867 44.279 1.00 19.98	С
ATOM	3353	CB LEU A 431	-0.503 36.389 44.034 1.00 20.08	C
ATOM	3356	CG LEU A 431	-0.281 35.784 42.650 1.00 21.04	C
ATOM	3358	CD1 LEU A 431	0.233 36.774 41.638 1.00 22.08	С
ATOM	3362	CD2 LEU A 431	0.614 34.536 42.731 1.00 20.80	С
ATOM	3366	C LEU A 431	-1.620 38.425 44.847 1.00 20.42	C
ATOM	3367	O LEU A 431	-2.438 38.944 44.096 1.00 20.94	0
ATOM	3368	N SER A 432	-1.805 38.323 46.164 1.00 20.27	N
ATOM	3370	CA SER A 432	-2.925 38.950 46.850 1.00 19.94	C
ATOM	3372	CB SER A 432	-2.829 38.753 48.334 1.00 19.85	C
		OG SER A 432	-3.931 39.389 48.922 1.00 20.35	0
ATOM	3377	C SER A 432	-2.994 40.429 46.654 1.00 20.43	C
ATOM			-4.079 40.960 46.515 1.00 20.88	O
		N SER A 433	-1.842 41.103 46.699 1.00 20.85	N
		CA SER A 433	-1.768 42.553 46.458 1.00 20.63	C
ATOM		CB SER A 433	-0.381 43.093 46.772 1.00 20.87	C
		OG SER A 433	0.018 42.700 48.074 1.00 22.56	0
ATOM		C SER A 433	-2.096 42.902 45.027 1.00 20.21	C
ATOM	3389		-2.773 43.883 44.790 1.00 20.71	0
			-1.616 42.111 44.067 1.00 19.98	N
		CA VAL A 434	-1.991 42.291 42.649 1.00 19.65	C
		CB VAL A 434	-1.292 41.273 41.698 1.00 19.49	C
ATOM			-1.831 41.389 40.295 1.00 19.50	C
		CG2 VAL A 434	0.201 41.480 41.659 1.00 19.36	C
		C VALA 434	-3.505 42.126 42.483 1.00 19.66	C
ATOM	3405	O VAL A 434	-4.109 42.756 41.619 1.00 19.42	0

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ATOM 3406 N HIS A 435 -4.115 41.290 43.323 1.00 19.83 N -5.566 41.125 43.313 1.00 19.75 C ATOM 3408 CA HIS A 435 -6.013 39.831 44.010 1.00 19.36 C ATOM 3410 CB HIS A 435 -7.491 39.736 44.151 1.00 18.62 C ATOM 3413 CG HIS A 435 ATOM 3414 ND1 HIS A 435 -8.138 40.014 45.328 1.00 17.77 N -9.438 39.896 45.151 1.00 18.31 C ATOM 3416 CE1 HIS A 435 ATOM 3418 NE2 HIS A 435 -9.659 39.574 43.893 1.00 17.98 N -8.456 39.478 43.244 1.00 18.86 C ATOM 3420 CD2 HIS A 435 -6.308 42.333 43.893 1.00 20.14 C ATOM 3422 C HIS A 435 -7.361 42.676 43.389 1.00 19.98 ATOM 3423 O HIS A 435 0 -5.775 42.969 44.939 1.00 20.92 N ATOM 3424 N SER A 436 ATOM 3426 CA SER A 436 -6.373 44.199 45.479 1.00 21.45 C ATOM 3428 CB SER A 436 -5.640 44.651 46.719 1.00 21.08 C 0 -6.065 43.887 47.808 1.00 22.20 ATOM 3431 OG SER A 436 -6.353 45.347 44.473 1.00 22.17 C ATOM 3433 C SER A 436 ATOM 3434 O SER A 436 -7.250 46.186 44.458 1.00 21.92 0 -5.301 45.383 43.660 1.00 22.91 Ν ATOM 3435 N GLU A 437 ATOM 3437 CA GLU A 437 -5.144 46.372 42.599 1.00 23.43 C ATOM 3439 CB GLU A 437 -3.731 46.285 42.035 1.00 23.83 C ATOM 3442 CG GLU A 437 -2.668 46,706 43.033 1.00 25.55 C ATOM 3445 CD GLU A 437 -1.273 46.418 42.533 1.00 28.12 C -0.338 46.356 43.379 1.00 29.77 ATOM 3446 OE1 GLU A 437 0 ATOM 3447 OE2 GLU A 437 -1.118 46.260 41.291 1.00 29.12 0 ATOM 3448 C GLU A 437 -6.163 46.188 41.473 1.00 23.06 C ATOM 3449 O GLU A 437 -6.631 47.163 40.880 1.00 22.75 0 -6.495 44.930 41.192 1.00 22.97 N ATOM 3450 N GLN A 438 ATOM 3452 CA GLN A 438 -7.547 44.592 40.243 1.00 22.59 C -7.583 43.092 39.966 1.00 22.22 C ATOM 3454 CB GLN A 438 ATOM 3457 CG GLN A 438 -8.688 42.644 39.030 1.00 21.85 C -8.530 43.205 37.648 1.00 21.21 ATOM 3460 CD GLN A 438 C -7.916 42.573 36.787 1.00 20.42 0 ATOM 3461 OE1 GLN A 438 ATOM 3462 NE2 GLN A 438 -9.066 44.403 37.429 1.00 20.77 N ATOM 3465 C GLN A 438 -8.901 45.055 40.748 1.00 22.79 C ATOM 3466 O GLN A 438 -9.667 45.589 39.959 1.00 23.19 0 ATOM 3467 N VAL A 439 -9.195 44.876 42.040 1.00 22.62 N -10.482 45.306 42.605 1.00 23.09 ATOM 3469 CA VAL A 439 C ATOM 3471 CB VAL A 439 -10.666 44.801 44.074 1.00 22.84 C ATOM 3473 CG1 VAL A 439 -11.891 45.422 44.727 1.00 22.88 C C -10.792 43.277 44.127 1.00 22.83 ATOM 3477 CG2 VAL A 439 ATOM 3481 C VAL A 439 -10.678 46.851 42.539 1.00 23.97 C ATOM 3482 O VAL A 439 -11.739 47.339 42.138 1.00 24.18 0 ATOM 3483 N PHE A 440 -9.642 47.583 42.946 1.00 24.82 N ATOM 3485 CA PHE A 440 -9.590 49.039 42.982 1.00 25.26 C ATOM 3487 CB PHE A 440 -8.283 49.428 43.693 1.00 25.27 C ATOM 3490 CG PHE A 440 \mathbf{C} -7.944 50.907 43.654 1.00 27.10 ATOM 3491 CD1 PHE A 440 -7.993 51.678 44.821 1.00 27.94 C ATOM 3493 CE1 PHE A 440 -7.655 53.041 44.798 1.00 28.61 C ATOM 3495 CZ PHE A 440 -7.250 53.650 43.601 1.00 28.95

ATOM 3497 CE2 PHE A 440 -7.184 52.897 42.433 1.00 28.81 C ATOM 3499 CD2 PHE A 440 -7.516 51.523 42.466 1.00 28.66 C ATOM 3501 C PHE A 440 -9.671 49.601 41.545 1.00 25.77 C ATOM 3502 O PHE A 440 -10.244 50.687 41.290 1.00 25.46 0 ATOM 3503 N ALA A 441 -9.113 48.839 40.605 1.00 26.29 N ATOM 3505 CA ALA A 441 -9.124 49.206 39.183 1.00 26.44 C ATOM 3507 CB ALA A 441 -8.154 48.333 38.413 1.00 26.33 ATOM 3511 C ALA A 441 -10.507 49.075 38.576 1.00 26.73 C ATOM 3512 O ALA A 441 -10.884 49.872 37.737 1.00 26.80 0 ATOM 3513 N LEU A 442 -11.234 48.042 38.996 1.00 27.41 N ATOM 3515 CA LEU A 442 -12.581 47.757 38.515 1.00 27.87 \mathbf{C} ATOM 3517 CB LEU A 442 -13.085 46.401 39.040 1.00 27.83 \mathbf{C} ATOM 3520 CG LEU A 442 -12.410 45.158 38.444 1.00 27.69 ATOM 3522 CD1 LEU A 442 -12.669 43.953 39.316 1.00 27.99 C ATOM 3526 CD2 LEU A 442 -12.869 44.882 37.028 1.00 27.30 C ATOM 3530 C LEU A 442 -13.514 48.840 38.983 1.00 28.46 C ATOM 3531 O LEU A 442 -14.329 49.317 38.218 1.00 28.61 O ATOM 3532 N ARG A 443 -13.391 49.228 40.246 1.00 29.29 N ATOM 3534 CA ARG A 443 -14.209 50.299 40.808 1.00 30.04 C -13.736 50.649 42.217 1.00 30.22 ATOM 3536 CB ARG A 443 C ATOM 3539 CG ARG A 443 -14.192 49.662 43.274 1.00 31.52 C ATOM 3542 CD ARG A 443 -15.332 50.167 44.148 1.00 33.85 C ATOM 3545 NE ARG A 443 -14.955 50.238 45.560 1.00 35.83 N ATOM 3547 CZ ARG A 443 -15.607 50.929 46.500 1.00 37.07 C ATOM 3548 NH1 ARG A 443 -16.700 51.632 46.203 1.00 37.49 N ATOM 3551 NH2 ARG A 443 -15.159 50.913 47.756 1.00 37.38 N ATOM 3554 C ARG A 443 -14.196 51.546 39.923 1.00 30.25 C ATOM 3555 O ARG A 443 -15.220 52.224 39.781 1.00 29.93 0 ATOM 3556 N LEU A 444 -13.032 51.831 39.334 1.00 30.75 N ATOM 3558 CA LEU A 444 -12.860 52.956 38.392 1.00 31.09 \mathbf{C} ATOM 3560 CB LEU A 444 -11.384 53.066 37.950 1.00 31.17 ATOM 3563 CG LEU A 444 -10.487 54.098 38.648 1.00 31.22 C ATOM 3565 CD1 LEU A 444 -10.498 53.963 40.166 1.00 31.19 C ATOM 3569 CD2 LEU A 444 -9.067 53.983 38.114 1.00 31.45 C ATOM 3573 C LEU A 444 -13.787 52.885 37.151 1.00 31.11 C ATOM 3574 O LEU A 444 -14.194 53.923 36.611 1.00 31.11 0 ATOM 3575 N GLN A 445 -14.092 51.662 36.709 1.00 31.11 N ATOM 3577 CA GLN A 445 -15.074 51.394 35.648 1.00 31.21 C ATOM 3579 CB GLN A 445 -14.598 50.220 34.787 1.00 31.41 C ATOM 3582 CG GLN A 445 -13.132 50.239 34.392 1.00 32.12 C ATOM 3585 CD GLN A 445 -12.865 49.300 33.233 1.00 33.14 C ATOM 3586 OE1 GLN A 445 -12.702 48.082 33.447 1.00 32.74 0 ATOM 3587 NE2 GLN A 445 -12.866 49.847 31.994 1.00 32.19 N ATOM 3590 C GLN A 445 -16.465 51.032 36.204 1.00 31.07 C ATOM 3591 O GLN A 445 -17.130 50.134 35.674 1.00 31.04 0 ATOM 3592 N ASP A 446 -16.901 51.742 37.250 1.00 30.89 N ATOM 3594 CA ASP A 446 -18.107 51.412 38.047 1.00 30.55 C ATOM 3596 CB ASP A 446 -19.350 52.244 37.606 1.00 30.66 C

ATOM	3599 CG ASP A 446	-19.798 51.973 36.150 1.00 31.69	С
ATOM		-20.020 52.946 35.373 1.00 31.83	0
ATOM	3601 OD2 ASP A 446	-19.981 50.822 35.695 1.00 32.98	О
ATOM	3602 C ASP A 446	-18.421 49.913 38.134 1.00 29.91	С
ATOM	3603 O ASP A 446	-19.580 49.514 38.041 1.00 30.02	0
ATOM		-17.386 49.095 38.336 1.00 29.01	N
ATOM		-17.536 47.638 38.442 1.00 28.56	С
ATOM	3608 CB LYS A 447	-16.598 46.911 37.463 1.00 28.67	С
ATOM		-16.953 47.087 35.975 1.00 29.64	C
ATOM		-17.028 45.745 35.199 1.00 30.85	С
ATOM	3617 CE LYS A 447	-15.821 45.495 34.266 1.00 31.17	C
ATOM		-16.241 45.320 32.835 1.00 31.49	N
ATOM		-17.265 47.168 39.878 1.00 27.76	С
ATOM		-16.191 46.639 40.168 1.00 27.90	0
ATOM		-18.263 47.349 40.749 1.00 26.87	N
ATOM		-18.170 47.078 42.194 1.00 26.07	С
ATOM	3630 CB LYS A 448	-19.153 47.975 42.975 1.00 26.32	C
ATOM		-19.143 49.495 42.654 1.00 26.59	C
ATOM		-20.515 50.161 42.976 1.00 27.73	С
ATOM	3639 CE LYS A 448	-20.398 51.547 43.657 1.00 28.37	C
ATOM	3642 NZ LYS A 448	-21.696 52.017 44.266 1.00 27.68	N
ATOM	3646 C LYS A 448	-18.460 45.613 42.581 1.00 25.00	С
ATOM	3647 O LYS A 448	-19.382 44.978 42.065 1.00 24.64	O
ATOM	3648 N LEU A 449	-17.677 45.097 43.519 1.00 23.95	N
ATOM	3650 CA LEU A 449	-17.946 43.791 44.105 1.00 23.17	С
ATOM	3652 CB LEU A 449	-16.916 43.468 45.186 1.00 22.93	C
ATOM	3655 CG LEU A 449	-15.452 43.316 44.788 1.00 22.84	C
ATOM	3657 CD1 LEU A 449	-14.614 42.959 46.012 1.00 22.45	C
ATOM	3661 CD2 LEU A 449	-15.288 42.271 43.719 1.00 23.33	C
ATOM	3665 C LEU A 449	-19.342 43.712 44.746 1.00 22.85	C
ATOM	3666 O LEU A 449	-19.805 44.665 45.383 1.00 22.49	O
ATOM	3667 N PRO A 450	-20.010 42.569 44.593 1.00 22.45	N
ATOM	3668 CA PRO A 450	-21.241 42.307 45.343 1.00 22.20	C
ATOM	3670 CB PRO A 450	-21.803 41.047 44.666 1.00 22.22	C
ATOM	3673 CG PRO A 450	-20.637 40.367 44.087 1.00 21.90	C
ATOM	3676 CD PRO A 450	-19.674 41.443 43.702 1.00 22.32	C
ATOM	3679 C PRO A 450	-20.978 42.057 46.844 1.00 21.92	C
ATOM	3680 O PRO A 450	-19.844 41.845 47.289 1.00 21.27	0
ATOM	3681 N PRO A 451	-22.050 42.075 47.622 1.00 21.60	N
ATOM	3682 CA PRO A 451	-21.931 42.136 49.075 1.00 21.42	C
ATOM	3684 CB PRO A 451	-23.368 41.933 49.537 1.00 21.48	C
ATOM	3687 CG PRO A 451	-24.173 42.511 48.422 1.00 21.66	C
ATOM	3690 CD PRO A 451	-23.460 42.050 47.195 1.00 21.52	С
ATOM	3693 C PRO A 451	-21.033 41.081 49.665 1.00 21.33	C
	3694 O PRO A 451	-20.235 41.434 50.504 1.00 21.87	0
ATOM	3695 N LEU A 452	-21.154 39.826 49.239 1.00 21.12	N
ATOM	3697 CA LEU A 452	-20.446 38.723 49.896 1.00 20.62	C
ATOM	3699 CB LEU A 452	-20.979 37.379 49.408 1.00 20.09	С

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ATOM	3702	CG LEU A 452 -22.431 37.092 49.784 1.00 20.73	С
ATOM	3704	CD1 LEU A 452 -22.785 35.714 49.301 1.00 21.49	С
ATOM	3708	CD2 LEU A 452 -22.716 37.186 51.287 1.00 20.70	С
ATOM	3712	C LEU A 452 -18.931 38.801 49.717 1.00 20.65	С
ATOM	3713	O LEU A 452 -18.167 38.384 50.601 1.00 21.01	Ο
ATOM	3714	N LEU A 453 -18.514 39.333 48.571 1.00 20.44	N
ATOM	3716	CA LEU A 453 -17.120 39.567 48.284 1.00 20.21	C
ATOM	3718	CB LEU A 453 -16.874 39.494 46.771 1.00 19.94	С
ATOM		CG LEU A 453 -17.234 38.206 46.036 1.00 18.63	С
ATOM	3723	CD1 LEU A 453 -16.851 38.295 44.560 1.00 17.21	С
ATOM	3727	CD2 LEU A 453 -16.565 37.017 46.679 1.00 18.51	С
ATOM	3731	C LEU A 453 -16.653 40.926 48.827 1.00 20.82	С
ATOM	3732	O LEU A 453 -15.474 41.090 49.107 1.00 20.92	О
ATOM	3733	N SER A 454 -17.549 41.900 48.981 1.00 21.37	N
ATOM	3735	CA SER A 454 -17.140 43.210 49.503 1.00 21.77	С
ATOM	3737	CB SER A 454 -18.195 44.314 49.255 1.00 21.86	С
ATOM	3740	OG SER A 454 -17.652 45.370 48.461 1.00 20.15	Ο
ATOM	3742	C SER A 454 -16.764 43.123 50.982 1.00 22.46	C
ATOM	3743	O SER A 454 -15.807 43.761 51.400 1.00 21.96	O
		N GLU A 455 -17.479 42.312 51.757 1.00 23.59	N
ATOM	3746	CA GLU A 455 -17.096 42.049 53.141 1.00 25.53	C
ATOM	3748	CB GLU A 455 -17.878 40.852 53.690 1.00 25.84	C
		CG GLU A 455 -19.276 41.185 54.208 1.00 28.77	C
ATOM	3754	CD GLU A 455 -20.256 39.994 54.195 1.00 31.25	C
ATOM	3755	OE1 GLU A 455 -21.394 40.150 54.700 1.00 31.67	О
ATOM	3756	OE2 GLU A 455 -19.905 38.907 53.671 1.00 33.40	О
ATOM	3757	C GLU A 455 -15.572 41.767 53.264 1.00 26.68	С
ATOM	3758	O GLU A 455 -14.908 42.249 54.198 1.00 27.07	O
ATOM	3759	N ILE A 456 -15.033 41.007 52.298 1.00 27.38	N
ATOM	3761	CA ILE A 456 -13.678 40.479 52.359 1.00 27.66	С
ATOM	3763	CB ILE A 456 -13.569 39.091 51.642 1.00 27.97	C
ATOM	3765	CG1 ILE A 456 -14.852 38.268 51.657 1.00 27.83	C
ATOM	3768	CD1 ILE A 456 -14.735 37.002 50.750 1.00 28.22	C
ATOM	3772	CG2 ILE A 456 -12.479 38.256 52.267 1.00 28.27	С
ATOM	3776	C ILE A 456 -12.617 41.407 51.744 1.00 27.81	C
ATOM	3777	O ILE A 456 -11.530 41.525 52.294 1.00 27.84	О
ATOM	3778	N TRP A 457 -12.916 42.059 50.619 1.00 28.14	N
ATOM	3780	CA TRP A 457 -11.868 42.665 49.790 1.00 28.27	С
ATOM	3782	CB TRP A 457 -11.835 41.959 48.438 1.00 27.80	С
ATOM	3785	CG TRP A 457 -11.435 40.531 48.478 1.00 26.47	С
ATOM	3786	CD1 TRP A 457 -10.558 39.953 49.332 1.00 27.09	С
ATOM	3788	NE1 TRP A 457 -10.425 38.613 49.055 1.00 25.93	N
ATOM	3790	CE2 TRP A 457 -11.230 38.300 47.999 1.00 24.67	C
ATOM	3791	CD2 TRP A 457 -11.882 39.486 47.609 1.00 25.03	С
ATOM	3792	CE3 TRP A 457 -12.766 39.430 46.534 1.00 24.74	C
ATOM	3794	CZ3 TRP A 457 -12.973 38.214 45.906 1.00 24.55	С
ATOM	3796	CH2 TRP A 457 -12.305 37.059 46.315 1.00 23.20	С
ATOM	3798	CZ2 TRP A 457 -11.438 37.079 47.361 1.00 23.28	С

ATOM	3800 C TRP A 457	-11.866 44.207 49.556 1.00 29.43	С
		-10.929 44.708 48.934 1.00 30.28	0
ATOM	3802 N ASP A 458	-12.832 44.991 50.016 1.00 30.20	N
ATOM	3804 CA ASP A 458	-12.664 46.443 49.817 1.00 31.40	C
ATOM	3806 CB ASP A 458	-13.193 46.934 48.434 1.00 31.63	C
ATOM	3809 CG ASP A 458	-14.687 46.637 48.197 1.00 31.97	С
ATOM	3810 OD1 ASP A 458	-15.402 46.153 49.106 1.00 32.78	O
ATOM	3811 OD2 ASP A 458	-15.234 46.859 47.099 1.00 32.00	O
ATOM	3812 C ASP A 458	-13.209 47.291 50.953 1.00 32.10	С
ATOM	3813 O ASP A 458	-12.455 47.641 51.862 1.00 33.21	Ο
ATOM	3814 O13 444 A 500	-12.903 32.520 41.908 1.00 38.73	О
	3815 S12 444 A 500		S
ATOM	3816 O14 444 A 500	-11.233 30.945 41.500 1.00 38.80	Ο
ATOM	3817 C01 444 A 500	-12.307 32.240 39.501 1.00 35.82	C
ATOM	3818 C02 444 A 500	-11.762 31.312 38.546 1.00 36.26	С
ATOM	3820 C03 444 A 500	-12.224 31.300 37.209 1.00 35.69	C
ATOM	3822 C04 444 A 500	-13.224 32.213 36.827 1.00 36.31	С
ATOM	3824 C05 444 A 500	-13.749 33.139 37.783 1.00 36.97	С
ATOM	3826 C06 444 A 500	-13.296 33.164 39.129 1.00 35.39	C
ATOM	3828 N15 444 A 500	-10.433 33.536 41.205 1.00 29.97	N
ATOM	3829 C16 444 A 500	-9.292 33.272 40.226 1.00 28.97	C
ATOM	3832 C19 444 A 500	-7.983 33.620 40.842 1.00 29.01	С
ATOM	3833 F22 444 A 500	-7.029 33.116 40.045 1.00 29.49	F
ATOM	3834 F21 444 A 500	-7.818 33.167 42.091 1.00 28.48	F
ATOM	3835 F20 444 A 500	-7.832 34.923 40.956 1.00 30.58	F
ATOM	3836 C23 444 A 500	-10.835 34.982 41.185 1.00 24.01	C
ATOM	3837 C24 444 A 500	-10.965 35.672 42.397 1.00 22.07	C
ATOM	3839 C25 444 A 500	-11.379 37.020 42.458 1.00 19.90	C
ATOM	3841 C28 444 A 500	-11.160 35.725 40.000 1.00 21.92	С
	3843 C27 444 A 500		С
ATOM	3845 C26 444 A 500	-11.693 37.779 41.289 1.00 17.65	C
		-12.190 39.247 41.480 1.00 16.46	C
	3847 C34 444 A 500	-11.551 40.241 40.502 1.00 16.76	C
		-11.967 41.510 40.769 1.00 16.31	F
		-10.218 40.150 40.593 1.00 17.90	F
	3850 F35 444 A 500	-11.819 39.974 39.215 1.00 17.74	F
		-11.993 39.783 42.823 1.00 14.95	О
		-13.728 39.235 41.163 1.00 17.17	С
	3854 F39 444 A 500	-14.006 38.764 39.913 1.00 16.84	F
	3855 F40 444 A 500	-14.373 38.394 42.018 1.00 16.20	F
	3856 F41 444 A 500	-14.397 40.411 41.232 1.00 16.25	F
	3857 N ALAB 219		N
	3859 CA ALA B 219	29.588 18.889 55.338 1.00 24.58	C
	3861 CB ALAB 219	31.057 18.475 55.521 1.00 24.07	C
	3865 C ALA B 219	29.402 19.870 54.131 1.00 24.15	C
	3866 O ALAB 219	29.068 19.449 53.011 1.00 24.62	0
	3869 N LEUB 220		N
ATOM	3871 CA LEU B 220	29.472 22.199 53.328 1.00 21.99	С

ATOM	3873	CB LEU B 220	29.618 23.615 53.917 1.00 22.09	С
		CG LEU B 220	28.445 24.252 54.663 1.00 22.49	Č
ATOM		CD1 LEU B 220	28.806 25.618 55.244 1.00 22.67	C
ATOM		CD2 LEU B 220	27.274 24.393 53.735 1.00 23.37	Č
ATOM		C LEU B 220	30.574 21.976 52.321 1.00 20.67	С
ATOM		O LEU B 220	31.672 21.583 52.686 1.00 20.63	Ö
ATOM			30.290 22.225 51.056 1.00 19.37	N
ATOM		CA THR B 221		Ċ
ATOM		CB THR B 221	30.691 21.996 48.660 1.00 18.60	Č
ATOM			29.876 23.146 48.391 1.00 18.73	O
ATOM			29.728 20.812 48.623 1.00 18.50	C
ATOM		C THR B 221		c
ATOM	3901			Ö
ATOM			33.316 23.363 49.370 1.00 16.94	N
ATOM			34.154 24.554 49.299 1.00 17.09	C
ATOM			35.444 24.268 48.587 1.00 16.86	C
ATOM			33.393 25.687 48.602 1.00 17.18	c
ATOM	3911		33.418 26.821 49.053 1.00 17.54 32.686 25.375 47.528 1.00 17.06	0 N
ATOM		N ALA B 223	31.927 26.389 46.822 1.00 17.33	N
ATOM				C C
ATOM			31.190 25.781 45.660 1.00 17.42	-
ATOM		C ALA B 223		C
ATOM		O ALA B 223	30.837 28.298 47.750 1.00 17.46	0
ATOM		N GLN B 224	30.290 26.292 48.594 1.00 18.35	N
ATOM		CA GLN B 224	29.242 26.776 49.504 1.00 18.65	C
ATOM		CB GLN B 224	28.462 25.594 50.120 1.00 18.47	C
ATOM		CG GLN B 224	27.469 24.947 49.161 1.00 18.73	C
ATOM		CD GLN B 224	26.721 23.757 49.765 1.00 18.05	C
ATOM			27.221 23.088 50.658 1.00 18.57	0
		NE2 GLN B 224	25.523 23.509 49.278 1.00 15.43	N
ATOM		C GLN B 224	29.815 27.643 50.613 1.00 18.94	C
ATOM	3938		29.189 28.628 51.022 1.00 18.39	0
		N GLUB 225	30.991 27.260 51.108 1.00 19.45	N
			31.637 28.043 52.135 1.00 20.29	C
		CB GLUB 225		C
		CG GLU B 225		C
		CD GLUB 225		C
		OE1 GLU B 225	34.681 26.120 54.235 1.00 24.51	0
ATOM		OE2 GLU B 225	33.285 24.955 55.503 1.00 26.73	0
		C GLU B 225	32.088 29.334 51.537 1.00 20.43	C
		O GLU B 225	31.942 30.365 52.163 1.00 20.91	0
		N LEU B 226	32.610 29.285 50.323 1.00 20.47	N
ATOM		CA LEUB 226	33.125 30.479 49.703 1.00 20.90	C
		CB LEUB 226	33.872 30.139 48.413 1.00 21.31	C
		CG LEUB 226	34.698 31.259 47.755 1.00 21.27	C
			35.609 31.969 48.733 1.00 21.43	C
		CD2 LEU B 226	35.505 30.650 46.674 1.00 21.43	С
ATOM	3971	C LEU B 226	31.997 31.465 49.427 1.00 21.31	С

ATOM	3972	O LEU B 226	32.160 32.670 49.647 1.00 21.15	O
ATOM	3973	N MET B 227	30.849 30.956 48.985 1.00 21.73	N
ATOM	3975	CA MET B 227	29.714 31.813 48.664 1.00 22.09	C
ATOM	3977	CB MET B 227	28.634 31.054 47.892 1.00 22.54	С
ATOM	3980	CG MET B 227	27.269 30.909 48.549 1.00 23.79	С
ATOM	3983	SD MET B 227	26.142 29.773 47.621 1.00 27.96	S
ATOM	3984	CE MET B 227	27.188 28.736 46.570 1.00 27.48	С
ATOM	3988	C MET B 227	29.172 32.474 49.912 1.00 22.21	С
ATOM	3989	O MET B 227	28.708 33.588 49.833 1.00 22.95	0
ATOM	3990	N ILE B 228	29.266 31.823 51.068 1.00 22.34	N
ATOM	3992	CA ILE B 228	28.910 32.476 52.333 1.00 22.29	C
ATOM	3994	CB ILE B 228	28.737 31.450 53.511 1.00 22.56	С
ATOM	3996	CG1 ILE B 228	27.588 30.472 53.242 1.00 23.49	С
ATOM	3999	CD1 ILE B 228	27.627 29.236 54.122 1.00 23.22	С
ATOM	4003	CG2 ILE B 228	28.437 32.169 54.846 1.00 22.22	С
ATOM	4007	C ILE B 228	29.960 33.531 52.699 1.00 21.82	С
ATOM	4008	O ILE B 228	29.614 34.617 53.154 1.00 21.47	0
ATOM	4009	N GLN B 229	31.238 33.211 52.521 1.00 21.59	N
ATOM	4011	CA GLN B 229	32.324 34.134 52.913 1.00 21.52	C
ATOM	4013	CB GLN B 229	33.685 33.452 52.905 1.00 21.14	C
ATOM	4016	CG GLN B 229	33.892 32.331 53.874 1.00 21.05	C
ATOM	4019	CD GLN B 229	35.306 31.720 53.750 1.00 22.52	С
ATOM	4020	OE1 GLN B 229	36.108 32.126 52.906 1.00 23.55	Ο
ATOM	4021	NE2 GLN B 229	35.607 30.755 54.605 1.00 23.97	N
ATOM	4024	C GLN B 229	32.362 35.373 51.986 1.00 21.62	C
ATOM	4025	O GLN B 229	32.573 36.499 52.457 1.00 20.86	O
ATOM	4026	N GLN B 230	32.153 35.142 50.684 1.00 21.69	N
ATOM	4028	CA GLN B 230	31.980 36.219 49.695 1.00 22.27	C
ATOM	4030	CB GLN B 230	31.551 35.671 48.304 1.00 22.97	C
ATOM	4033	CG GLN B 230	32.497 35.982 47.154 1.00 25.55	С
ATOM	4036	CD GLN B 230	32.631 34.843 46.076 1.00 29.62	C
		OE1 GLN B 230		Ο
		NE2 GLN B 230		N
		C GLN B 230		C
		O GLN B 230	31.139 38.390 50.202 1.00 21.52	О
		N LEU B 231	29.742 36.648 50.550 1.00 21.50	N
		CA LEU B 231	28.599 37.461 50.943 1.00 21.25	С
		CB LEU B 231	27.354 36.589 51.108 1.00 20.78	С
		CG LEU B 231	26.673 36.046 49.837 1.00 20.15	C
		CD1 LEU B 231	25.392 35.295 50.237 1.00 19.85	C
		CD2 LEU B 231	26.335 37.096 48.808 1.00 19.23	С
		C LEU B 231	28.865 38.252 52.232 1.00 21.94	С
ATOM			28.598 39.448 52.300 1.00 21.80	О
		N VAL B 232	29.426 37.585 53.235 1.00 22.76	N
		CA VAL B 232	29.628 38.171 54.549 1.00 23.21	С
		CB VAL B 232		С
			30.761 37.688 56.793 1.00 22.84	C
ATOM	4072	CG2 VAL B 232	29.026 36.110 55.844 1.00 22.95	C

ATOM	4076 C VAL B 232	30.630 39.320 54.456 1.00 24.43	С
ATOM	4077 O VAL B 232	30.505 40.316 55.165 1.00 25.28	О
ATOM	4078 N ALA B 233	31.619 39.159 53.572 1.00 25.43	N
ATOM	4080 CA ALA B 233	32.706 40.125 53.343 1.00 26.13	С
ATOM	4082 CB ALA B 233	33.869 39.411 52.651 1.00 26.16	C
ATOM	4086 C ALA B 233	32.307 41.346 52.502 1.00 27.05	С
ATOM	4087 O ALA B 233	32.789 42.446 52.732 1.00 27.17	О
ATOM	4088 N ALA B 234	31.490 41.118 51.482 1.00 28.25	N
ATOM	4090 CA ALA B 234	30.831 42.176 50.727 1.00 29.27	C
ATOM	4092 CB ALA B 234	29.965 41.558 49.621 1.00 29.31	C
ATOM	4096 C ALA B 234	29.958 43.004 51.655 1.00 30.40	\mathbf{C}
ATOM	4097 O ALA B 234	29.882 44.210 51.552 1.00 29.95	О
ATOM	4098 N GLN B 235	29.294 42.316 52.566 1.00 32.57	N
ATOM	4100 CA GLN B 235	28.399 42.928 53.543 1.00 34.38	C
ATOM	4102 CB GLN B 235	27.829 41.824 54.441 1.00 34.81	С
ATOM	4105 CG GLN B 235	26.865 42.286 55.484 1.00 37.75	C
ATOM	4108 CD GLN B 235	25.566 41.484 55.460 1.00 41.27	C
ATOM	4109 OE1 GLN B 235	25.504 40.371 56.026 1.00 42.65	О
ATOM	4110 NE2 GLN B 235	24.525 42.046 54.814 1.00 41.12	N
ATOM	4113 C GLN B 235	29.145 43.957 54.375 1.00 34.95	. C
ATOM	4114 O GLN B 235	28.613 45.011 54.675 1.00 34.65	О
ATOM	4115 N LEUB 236	30.389 43.615 54.715 1.00 36.32	N
ATOM	4117 CA LEUB 236	31.262 44.414 55.564 1.00 37.34	С
ATOM	4119 CB LEU B 236	32.433 43.559 56.017 1.00 37.63	C
ATOM	4122 CG LEUB 236	32.509 43.208 57.493 1.00 38.70	C
ATOM	4124 CD1 LEU B 236	31.604 41.997 57.824 1.00 39.79	C
ATOM	4128 CD2 LEU B 236	33.960 42.926 57.797 1.00 38.57	C
ATOM	4132 C LEU B 236	31.815 45.657 54.869 1.00 38.08	C
ATOM	4133 O LEUB 236	31.855 46.726 55.461 1.00 37.92	O
ATOM	4134 N GLN B 237	32.262 45.493 53.626 1.00 39.36	N
ATOM	4136 CA GLN B 237	32.746 46.598 52.797 1.00 40.70	C
ATOM	4138 CB GLN B 237	33.415 46.058 51.524 1.00 40.83	С
ATOM	4141 CG GLN B 237	34.532 46.964 50.971 1.00 41.60	C
ATOM	4144 CD GLN B 237	34.992 46.534 49.591 1.00 42.42	C
ATOM	4145 OE1 GLN B 237	34.170 46.108 48.764 1.00 42.22	O
ATOM	4146 NE2 GLN B 237	36.308 46.630 49.337 1.00 42.50	N
ATOM	4149 C GLN B 237	31.632 47.602 52.424 1.00 41.89	\mathbf{C}
ATOM	4150 O GLN B 237	31.882 48.807 52.305 1.00 41.99	O
ATOM	4151 N CYS B 238	30.413 47.104 52.241 1.00 43.32	N
ATOM	4153 CA CYS B 238	29.246 47.954 52.013 1.00 44.73	C
ATOM	4155 CB CYS B 238	28.069 47.119 51.513 1.00 44.86	C
ATOM	4158 SG CYS B 238	28.396 46.553 49.839 1.00 46.85	S
ATOM	4159 C CYS B 238	28.835 48.702 53.267 1.00 45.60	C
ATOM	4160 O CYS B 238	28.345 49.828 53.170 1.00 46.06	0
ATOM	4161 N ASN B 239	29.045 48.079 54.429 1.00 46.60	N
ATOM	4163 CA ASN B 239	28.756 48.692 55.732 1.00 47.74	С
	4165 CB ASN B 239	28.707 47.600 56.824 1.00 47.61	С
ATOM	4168 CG ASN B 239	28.145 48.099 58.160 1.00 48.06	С

ATOM	4169 OD1 ASN B 239	26.976 47.868 58.480 1.00 49.54	Ο
ATOM	4170 ND2 ASN B 239	28.986 48.764 58.954 1.00 48.17	N
ATOM	4173 C ASN B 239	29.743 49.820 56.132 1.00 48.99	С
ATOM	4174 O ASN B 239	29.520 50.493 57.140 1.00 49.79	О
ATOM	4175 N LYS B 240	30.828 50.030 55.377 1.00 50.23	N
ATOM	4177 CA LYS B 240	31.737 51.171 55.618 1.00 51.04	С
ATOM			C
ATOM	4182 CG LYS B 240		C
	4185 CD LYS B 240		C
	4188 CE LYS B 240		С
		37.081 48.229 55.115 1.00 51.87	N
	4195 C LYS B 240		С
	4196 O LYS B 240		O
ATOM		30.184 52.424 54.192 1.00 53.10	N
ATOM		29.218 53.500 53.891 1.00 54.14	C
	4201 CB ARG B 241		C
=	4204 CG ARG B 241		C
	4207 CD ARG B 241		С
	4210 NE ARG B 241		N
-		27.611 57.250 50.276 1.00 60.60	C
	4213 NH1 ARG B 241		N
ATOM	4216 NH2 ARG B 241		N
ATOM	4219 C ARG B 241		C
	4220 O ARG B 241	28.148 55.141 55.293 1.00 54.62	0
ATOM	4221 N SER B 242	28.051 52.997 55.996 1.00 55.06	N
ATOM	4223 CA SER B 242		C
		26.892 51.980 57.957 1.00 55.30	C
ATOM	4228 OG SER B 242		O
ATOM	4230 C SER B 242	28.211 54.049 58.288 1.00 55.24	C
ATOM	4231 O SER B 242		0
	4232 N PHE B 243		N
	4234 CA PHE B 243	30.259 54.359 59.534 1.00 55.08	C
	4236 CB PHE B 243		C
	4239 CG PHE B 243		C
	4240 CD1 PHE B 243	31.181 54.146 62.493 1.00 57.56	C
	4242 CE1 PHE B 243	31.719 54.624 63.733 1.00 57.97	C
	4244 CZ PHE B 243	33.083 54.941 63.831 1.00 57.54	C
	4246 CE2 PHE B 243	33.905 54.785 62.705 1.00 57.44	C
	4248 CD2 PHE B 243	33.356 54.313 61.473 1.00 57.17	C
	4250 C PHE B 243	30.746 55.749 59.061 1.00 54.73 30.825 56.679 59.865 1.00 55.07	C
	4251 O PHE B 243		0 N
	4252 N SER B 244	31.027 55.904 57.767 1.00 54.22 31.487 57.191 57.211 1.00 53.75	N
	4254 CA SER B 244		C
	4256 CB SER B 244	32.064 57.008 55.793 1.00 53.77	C
	4259 OG SER B 244	31.290 57.702 54.822 1.00 53.38	0
	4261 C SER B 244	30.385 58.262 57.176 1.00 53.38	C
ATOM		30.627 59.418 57.535 1.00 53.00	0 N
ATUM	4263 N ASP B 245	29.188 57.855 56.732 1.00 53.11	N

ATOM	4265	CA ASP B 245	28.019 58.748 56.567 1.00 52.82	C
ATOM	4267	CB ASP B 245	27.074 58.230 55.443 1.00 52.94	С
ATOM	4270	CG ASP B 245	27.614 58.476 54.002 1.00 53.62	С
ATOM	4271	OD1 ASP B 245	28.098 59.587 53.682 1.00 55.16	0
		OD2 ASP B 245	27.548 57.610 53.105 1.00 52.73	0
		C ASP B 245	27.179 58.946 57.855 1.00 52.05	С
		O ASP B 245	26.117 59.572 57.805 1.00 52.02	0
			27.652 58.422 58.988 1.00 51.15	N
		CA GLN B 246	26.926 58.504 60.267 1.00 50.54	C
ATOM		CB GLN B 246		Č
		CG GLN B 246		C
		CD GLN B 246	27.645 56.547 63.672 1.00 53.24	Ċ
			28.817 56.436 64.073 1.00 54.34	0
			26.679 55.685 64.010 1.00 53.27	N
		C GLN B 246	26.862 59.957 60.851 1.00 49.48	С
		O GLN B 246	25.763 60.470 61.101 1.00 49.52	0
ATOM		N PRO B 247	28.000 60.615 61.094 1.00 47.95	N
ATOM		CA PRO B 247		С
		CB PRO B 247	29.467 62.362 61.741 1.00 47.00	C
		CG PROB 247	30.042 61.036 62.140 1.00 47.48	С
		CD PROB 247	29.359 60.046 61.223 1.00 47.92	С
		C PRO B 247	27.476 63.045 60.296 1.00 45.54	C
ATOM	4305	O PRO B 247	27.150 64.182 60.635 1.00 45.34	O
ATOM	4306	N LYS B 248	27.396 62.644 59.032 1.00 43.94	N
ATOM	4308	CA LYS B 248	26.860 63.543 57.990 1.00 42.75	C
ATOM	4310	CB LYS B 248	27.141 62.964 56.593 1.00 43.13	C
ATOM	4313	CG LYS B 248	28.639 62.768 56.264 1.00 44.00	C
ATOM	4316	CD LYS B 248	28.852 62.542 54.752 1.00 44.70	С
ATOM	4319	CE LYS B 248	30.091 61.695 54.450 1.00 44.85	C
ATOM	4322	NZ LYS B 248	30.151 61.296 53.010 1.00 44.31	N
ATOM	4326	C LYS B 248	25.340 63.827 58.140 1.00 40.90	С
ATOM	4327	O LYS B 248	24.845 64.869 57.686 1.00 40.99	Ο
ATOM	4328	N VAL B 249	24.636 62.901 58.797 1.00 38.30	N
ATOM	4330	CA VAL B 249	23.173 62.868 58.906 1.00 36.28	C
ATOM	4332	CB VAL B 249	22.743 61.474 59.484 1.00 36.31	C
ATOM	4334	CG1 VAL B 249	21.274 61.419 59.906 1.00 36.23	C
ATOM	4338	CG2 VAL B 249	23.031 60.379 58.478 1.00 36.31	C
ATOM	4342	C VAL B 249	22.576 63.984 59.767 1.00 34.54	C
ATOM	4343	O VAL B 249	23.245 64.523 60.642 1.00 34.40	О
ATOM	4344	N THR B 250	21.311 64.318 59.495 1.00 32.57	N
		CA THR B 250	20.513 65.209 60.341 1.00 31.14	C
		CB THR B 250	19.124 65.442 59.743 1.00 31.02	C
		OG1 THR B 250	19.234 66.102 58.486 1.00 31.14	0
		CG2 THR B 250	18.310 66.419 60.602 1.00 31.00	C
		C THR B 250	20.326 64.594 61.720 1.00 29.95	С
ATOM			19.559 63.644 61.896 1.00 29.50	O
			20.989 65.144 62.720 1.00 28.66	N
ATOM	4359	CA PRO B 251	20.950 64.526 64.051 1.00 27.87	С

ATOM	4361	CB PRO B 251	21.874 65.426 64.886 1.00 27.94	С
ATOM		00 55055	22.682 66.181 63.888 1.00 28.33	С
ATOM	4367	CD PROB 251	21.791 66.380 62.703 1.00 28.63	C
		C PRO B 251	19.522 64.463 64.632 1.00 26.71	C
		O PRO B 251	18.680 65.312 64.335 1.00 26.64	Ō
		N TRP B 252		Ň
		CA TRP B 252	17.951 63.234 66.046 1.00 23.97	C
ATOM		CB TRP B 252	17.937 61.878 66.763 1.00 23.92	Č
ATOM		CG TRP B 252		Č
		CD1 TRP B 252	16.189 61.540 68.656 1.00 21.21	C
_		NE1 TRP B 252	14.938 60.987 68.802 1.00 20.46	N
		CE2 TRP B 252	14.520 60.492 67.595 1.00 18.51	C
		CD2 TRP B 252		C
		CE3 TRP B 252		C
ATOM		CZ3 TRP B 252	14.164 59.740 64.978 1.00 16.72	C
ATOM			13.156 59.497 65.934 1.00 16.41	C
		CZ2 TRP B 252		C
ATOM				
ATOM		C TRP B 252	17.730 64.380 67.013 1.00 22.87	С
ATOM		O TRP B 252		0
ATOM		N PRO B 253	•	N
			16.339 66.235 67.787 1.00 22.20	C
ATOM		CB PROB 253		C
ATOM		CG PROB 253		C
ATOM		CD PROB 253	15.376 64.726 66.170 1.00 22.10	C
		C PRO B 253		C
ATOM		O PRO B 253	15.242 65.429 69.778 1.00 22.73	0
ATOM		N LEU B 254	17.195 66.511 70.065 1.00 22.50	N
			17.164 66.496 71.516 1.00 23.12	C
		CB LEU B 254		C
		CG LEU B 254		C
ATOM			20.903 65.473 72.136 1.00 23.36	C
			18.948 64.066 71.382 1.00 21.36	C
			16.436 67.733 72.041 1.00 23.58	С
ATOM		O LEU B 254	16.501 68.767 71.422 1.00 23.69	О
ATOM		N GLY B 255	15.724 67.619 73.156 1.00 24.43	N
		CA GLY B 255	15.173 68.775 73.850 1.00 25.36	C
		C GLY B 255	13.829 69.324 73.397 1.00 26.48	C
ATOM	4435	O GLY B 255	13.453 70.400 73.837 1.00 26.18	О
ATOM	4436	N ALA B 256	13.094 68.573 72.572 1.00 28.31	N
ATOM	4438	CA ALA B 256	11.885 69.060 71.870 1.00 29.71	C
ATOM	4440	CB ALA B 256	11.624 68.177 70.650 1.00 29.61	С
ATOM	4444	C ALA B 256	10.597 69.136 72.719 1.00 31.22	C
ATOM	4445	O ALA B 256	10.383 68.285 73.582 1.00 31.35	Ο
ATOM	4446	N ASP B 257	9.733 70.131 72.433 1.00 33.04	N
ATOM	4448	CA ASP B 257	8.375 70.269 73.051 1.00 34.35	C
ATOM	4450	CB ASP B 257	7.821 71.731 73.009 1.00 34.35	С
		CG ASP B 257	8.880 72.813 73.128 1.00 34.61	С
		OD1 ASP B 257	9.055 73.350 74.248 1.00 34.01	0

		9.524 73.240 72.141 1.00 35.06	О
		7.361 69.306 72.349 1.00 35.52	C
ATOM	4457 O ASP B 257	7.794 68.366 71.645 1.00 36.06	0
ATOM	4458 N PRO B 258	6.037 69.522 72.491 1.00 36.59	N
ATOM	4459 CA PRO B 258	5.056 68.687 71.765 1.00 37.00	C
ATOM	4461 CB PRO B 258	3.853 69.637 71.622 1.00 37.07	С
ATOM	4464 CG PROB 258	3.865 70.424 72.945 1.00 37.12	C
		5.332 70.530 73.324 1.00 36.62	C
ATOM	4470 C PRO B 258	5.507 68.146 70.392 1.00 37.02	С
		5.474 68.872 69.394 1.00 37.05	0
ATOM	4472 N ALA B 261	5.933 71.527 65.790 1.00 23.53	N
		5.885 70.485 64.784 1.00 23.40	С
		4.724 70.738 63.850 1.00 23.75	
		7.209 70.402 63.997 1.00 23.27	С
		7.431 69.440 63.219 1.00 22.81	Ō
ATOM		8.056 71.421 64.200 1.00 22.75	
		9.483 71.415 63.837 1.00 22.57	C
		10.210 72.484 64.669 1.00 22.41	Ċ
		11.361 73.132 63.935 1.00 22.49	Č
		11.983 72.476 63.082 1.00 22.83	
		11.726 74.303 64.160 1.00 21.66	ŏ
	4492 C ASP B 262		C
	4493 O ASP B 262		Ö
		10.259 69.542 65.265 1.00 22.63	N
		10.984 68.300 65.589 1.00 22.14	Ċ
		11.027 68.104 67.078 1.00 22.25	Č
		10.422 67.041 64.923 1.00 22.12	c
		11.153 66.073 64.671 1.00 21.57	Ö
		9.124 67.053 64.647 1.00 22.30	N
		8.460 65.917 63.998 1.00 22.71	C
		6.940 66.161 63.951 1.00 23.47	
		6.098 65.046 64.548 1.00 26.53	C
		5.610 63.988 63.526 1.00 30.96	c
	4517 NE ARG B 264		N
	4519 CZ ARG B 264		C
	4520 NH1 ARG B 264		N
	4523 NH2 ARG B 264		N
	4526 C ARG B 264	9.018 65.681 62.576 1.00 21.70	C
	4527 O ARG B 264	9.176 64.540 62.145 1.00 21.68	o
	4528 N GLN B 265	9.293 66.789 61.879 1.00 20.57	
	4530 CA GLN B 265	9.890 66.828 60.544 1.00 19.35	N C
			C
	4532 CB GLN B 265 4535 CG GLN B 265	9.780 68.263 59.958 1.00 19.49 9.099 68.373 58.576 1.00 21.01	C
	4538 CD GLN B 265	9.776 67.519 57.471 1.00 21.01	C
	4538 CD GLN B 265 4539 OE1 GLN B 265	9.176 67.519 57.471 1.00 21.91 9.158 66.607 56.923 1.00 21.19	0
	4540 NE2 GLN B 265	11.038 67.828 57.154 1.00 23.36	N
		11.038 67.828 37.134 1.00 23.36	
	4543 C GLN B 265		C
ATOM	4544 O GLN B 265	11.833 65.794 59.599 1.00 17.63	О

		2.0	
ATOM	4545 N GLN B 266	12.086 66.775 61.607 1.00 17.43	N
ATOM	4547 CA GLN B 266	13.534 66.520 61.670 1.00 16.68	C
ATOM	4549 CB GLN B 266	14.210 67.367 62.778 1.00 16.42	С
ATOM	4552 CG GLN B 266	15.749 67.521 62.603 1.00 17.00	C
ATOM	4555 CD GLN B 266	16.443 68.236 63.777 1.00 17.14	C
ATOM	4556 OE1 GLN B 266	16.095 69.363 64.093 1.00 18.61	О
ATOM	4557 NE2 GLN B 266	17.422 67.586 64.402 1.00 15.38	N
ATOM	4560 C GLN B 266	13.791 65.019 61.862 1.00 15.63	C
ATOM	4561 O GLN B 266	14.673 64.433 61.224 1.00 14.42	Ο
ATOM	4562 N ARG B 267	13.004 64.420 62.753 1.00 15.02	N
ATOM	4564 CA ARG B 267	13.029 62.981 62.986 1.00 14.67	C
ATOM	4566 CB ARG B 267	12.005 62.592 64.037 1.00 14.62	C
ATOM	4569 CG ARG B 267	12.304 63.045 65.428 1.00 15.59	C
ATOM	4572 CD ARG B 267	11.209 62.632 66.388 1.00 17.40	C
ATOM	4575 NE ARG B 267	11.338 63.258 67.702 1.00 18.98	N
		10.404 63.991 68.299 1.00 20.96	C
ATOM	4578 NH1 ARG B 267	9.240 64.242 67.704 1.00 22.06	N
ATOM	4581 NH2 ARG B 267	10.641 64.494 69.505 1.00 21.26	N
ATOM	4584 C ARG B 267	12.666 62.248 61.711 1.00 14.38	C
ATOM	4585 O ARG B 267	13.279 61.232 61.376 1.00 14.37	Ο
ATOM	4586 N PHE B 268	11.640 62.741 61.016 1.00 13.88	N
ATOM	4588 CA PHE B 268	11.271 62.153 59.748 1.00 13.74	С
ATOM	4590 CB PHE B 268	9.980 62.728 59.155 1.00 13.86	C
ATOM	4593 CG PHE B 268	9.592 62.052 57.858 1.00 15.91	C
ATOM	4594 CD1 PHE B 268	9.120 60.735 57.866 1.00 16.22	C
ATOM	4596 CE1 PHE B 268	8.814 60.083 56.684 1.00 17.48	C
ATOM	4598 CZ PHE B 268	8.991 60.739 55.470 1.00 18.77	C
ATOM	4600 CE2 PHE B 268	9.475 62.059 55.443 1.00 17.57	C
ATOM	4602 CD2 PHE B 268	9.781 62.700 56.626 1.00 17.00	C
ATOM	4604 C PHE B 268	12.427 62.256 58.743 1.00 12.92	C
ATOM	4605 O PHE B 268	12.834 61.260 58.184 1.00 13.32	Ο
ATOM		12.946 63.450 58.522 1.00 12.15	N
	4608 CA ALA B 269	14.138 63.637 57.709 1.00 11.93	C
ATOM	4610 CB ALA B 269	14.626 65.064 57.821 1.00 11.98	С
	4614 C ALA B 269	15.253 62.681 58.096 1.00 11.93	C
ATOM	4615 O ALA B 269	15.867 62.076 57.228 1.00 11.90	О
ATOM	4616 N HIS B 270	15.491 62.520 59.396 1.00 12.21	N
	4618 CA HIS B 270	16.558 61.652 59.892 1.00 12.77	C
	4620 CB HIS B 270	16.608 61.703 61.422 1.00 13.05	С
	4623 CG HIS B 270	17.682 60.857 62.044 1.00 13.82	C
	4624 ND1 HIS B 270	18.985 61.290 62.193 1.00 14.63	N
	4626 CE1 HIS B 270	19.693 60.351 62.798 1.00 14.72	C
	4628 NE2 HIS B 270	18.894 59.333 63.065 1.00 14.64	N
	4630 CD2 HIS B 270	17.628 59.629 62.614 1.00 14.16	C
	4632 C HIS B 270	16.372 60.219 59.402 1.00 13.02	C
	4633 O HIS B 270	17.323 59.605 58.948 1.00 13.03	0
	4634 N PHE B 271	15.135 59.728 59.477 1.00 13.50	N
ATOM	4636 CA PHE B 271	14.764 58.374 59.086 1.00 14.17	C

ATOM	4638 CB PHE B 271	13.295 58.092 59.458 1.00 14.50	С
ATOM	4641 CG PHE B 271	13.095 57.360 60.784 1.00 15.95	С
ATOM	4642 CD1 PHE B 271	13.797 57.709 61.926 1.00 17.54	С
ATOM	4644 CE1 PHE B 271	13.596 57.045 63.129 1.00 18.13	С
ATOM	4646 CZ PHE B 271	12.689 56.049 63.224 1.00 19.25	С
ATOM	4648 CE2 PHE B 271	11.964 55.678 62.103 1.00 20.36	С
ATOM	4650 CD2 PHE B 271	12.166 56.348 60.885 1.00 18.41	С
ATOM	4652 C PHE B 271	14.936 58.168 57.583 1.00 14.72	С
ATOM	4653 O PHE B 271	15.368 57.086 57.140 1.00 15.05	O
ATOM	4654 N THR B 272	14.599 59.198 56.797 1.00 15.02	N
ATOM	4656 CA THR B 272	14.748 59.149 55.328 1.00 14.87	С
ATOM	4658 CB THR B 272	14.101 60.368 54.642 1.00 14.56	C
ATOM	4660 OG1 THR B 272	14.749 61.567 55.057 1.00 12.34	0
ATOM	4662 CG2 THR B 272	12.651 60.545 55.069 1.00 14.67	С
ATOM	4666 C THR B 272	16.219 59.109 54.961 1.00 15.29	C
ATOM	4667 O THR B 272	16.640 58.450 54.001 1.00 14.04	O
ATOM	4668 N GLUB 273	16.997 59.818 55.764 1.00 16.21	N
ATOM	4670 CA GLU B 273	18.405 59.963 55.485 1.00 17.15	С
ATOM	4672 CB GLU B 273	18.992 61.146 56.242 1.00 17.12	C
ATOM	4675 CG GLU B 273	18.835 62.413 55.419 1.00 18.24	С
ATOM	4678 CD GLU B 273	19.309 63.646 56.145 1.00 20.25	C
ATOM	4679 OE1 GLU B 273	18.516 64.607 56.299 1.00 21.67	O
ATOM	4680 OE2 GLU B 273	20.479 63.646 56.548 1.00 20.79	О
ATOM	4681 C GLU B 273	19.148 58.674 55.741 1.00 17.51	C
ATOM	4682 O GLUB 273	20.086 58.355 55.009 1.00 18.09	O
ATOM	4683 N LEUB 274	18.716 57.915 56.740 1.00 17.88	N
ATOM	4685 CA LEU B 274	19.280 56.589 56.962 1.00 18.24	С
ATOM	4687 CB LEU B 274	18.919 56.064 58.345 1.00 18.44	C
ATOM	4690 CG LEUB 274	19.333 56.898 59.559 1.00 20.02	C
ATOM	4692 CD1 LEU B 274	18.910 56.182 60.858 1.00 21.07	C
ATOM	4696 CD2 LEU B 274	20.825 57.222 59.575 1.00 21.28	C
ATOM	4700 C LEU B 274	18.811 55.611 55.880 1.00 17.93	С
		19.575 54.755 55.458 1.00 17.46	O
	4702 N ALA B 275		N
	4704 CA ALA B 275		С
ATOM	4706 CB ALA B 275	15.553 55.269 54.142 1.00 16.76	С
ATOM	4710 C ALA B 275	17.778 55.084 53.118 1.00 18.01	C
ATOM	4711 O ALA B 275	18.088 54.097 52.466 1.00 18.14	О
ATOM	4712 N ILE B 276	18.107 56.330 52.770 1.00 18.68	N
ATOM	4714 CA ILE B 276	18.945 56.613 51.623 1.00 18.96	С
ATOM	4716 CB ILE B 276	19.214 58.142 51.475 1.00 19.22	C
ATOM	4718 CG1 ILE B 276	17.991 58.845 50.882 1.00 18.43	C
ATOM	4721 CD1 ILE B 276	18.007 60.347 51.022 1.00 17.60	C
	4725 CG2 ILE B 276	20.450 58.409 50.592 1.00 19.31	C
ATOM	4729 C ILE B 276	20.244 55.857 51.784 1.00 19.67	C
	4730 O ILE B 276	20.620 55.113 50.901 1.00 20.42	O
	4731 N ILE B 277	20.919 56.016 52.918 1.00 20.23	N
ATOM	4733 CA ILE B 277	22.206 55.341 53.135 1.00 20.68	С
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ATOM	4735	CB ILE B 277	22.748 55.641 54.560 1.00 20.48	C
ATOM	4737	CG1 ILE B 277	23.202 57.085 54.641 1.00 20.58	С
ATOM	4740	CD1 ILE B 277	23.112 57.656 56.037 1.00 21.64	С
ATOM	4744	CG2 ILE B 277	23.908 54.755 54.926 1.00 20.23	C
ATOM	4748	C ILE B 277 2	2.064 53.836 52.885 1.00 21.24	C
ATOM			2.933 53.218 52.296 1.00 21.33	0
			20.948 53.264 53.312 1.00 22.00	N
		CA SER B 278	20.710 51.835 53.182 1.00 22.97	C
ATOM			19.534 51.411 54.085 1.00 23.45	С
ATOM			19.807 50.198 54.786 1.00 26.12	О
ATOM	4759	C SER B 278	20.472 51.437 51.709 1.00 22.73	С
ATOM	4760	O SER B 278	20.951 50.399 51.241 1.00 22.40	Ο
ATOM	4761	N VAL B 279	19.751 52.277 50.979 1.00 22.57	N
ATOM	4763	CA VAL B 279	19.488 52.021 49.573 1.00 22.50	C
ATOM	4765	CB VAL B 279	18.607 53.116 48.929 1.00 22.38	С
ATOM	4767	CG1 VAL B 279	18.448 52.853 47.461 1.00 21.66	C
ATOM	4771	CG2 VAL B 279	17.214 53.181 49.587 1.00 22.01	С
ATOM	4775	C VAL B 279	20.811 51.942 48.829 1.00 22.93	C
ATOM	4776	O VAL B 279	21.018 51.066 48.020 1.00 23.53	Ο
ATOM	4777	N GLN B 280	21.719 52.854 49.118 1.00 23.29	N
ATOM	4779	CA GLN B 280	23.000 52.877 48.448 1.00 23.37	C
ATOM	4781	CB GLN B 280	23.704 54.221 48.665 1.00 23.57	C
ATOM	4784	CG GLN B 280	22.869 55.415 48.141 1.00 25.84	C
ATOM	4787	CD GLN B 280	23.391 56.815 48.571 1.00 30.13	\mathbf{C}
ATOM	4788	OE1 GLN B 280	23.752 57.035 49.747 1.00 32.29	О
ATOM	4789	NE2 GLN B 280	23.406 57.766 47.620 1.00 30.97	N
ATOM	4792	C GLN B 280	23.850 51.686 48.887 1.00 23.22	С
ATOM	4793	O GLN B 280	24.576 51.160 48.066 1.00 23.71	Ο
ATOM	4794	N GLU B 281	23.756 51.245 50.146 1.00 23.05	N
ATOM	4796	CA GLU B 281	24.459 50.031 50.609 1.00 23.19	C
ATOM	4798	CB GLU B 281	24.302 49.865 52.125 1.00 23.69	C
ATOM	4801	CG GLU B 281	25.233 50.720 52.963 1.00 27.14	C
ATOM	4804	CD GLU B 281	25.101 50.516 54.491 1.00 31.62	C
ATOM	4805	OE1 GLU B 281	24.386 49.589 54.988 1.00 33.36	О
ATOM	4806	OE2 GLU B 281	25.735 51.323 55.212 1.00 34.33	О
ATOM	4807	C GLU B 281	23.932 48.741 49.928 1.00 22.41	С
ATOM	4808	O GLU B 281	24.666 47.794 49.682 1.00 21.37	Ο
ATOM	4809	N ILE B 282 2	2.636 48.715 49.655 1.00 21.99	N
ATOM	4811	CA ILE B 282	22.018 47.576 49.041 1.00 21.73	C
ATOM	4813	CB ILE B 282	20.518 47.612 49.272 1.00 21.40	C
ATOM	4815	CG1 ILE B 282	20.200 47.370 50.747 1.00 20.60	C
ATOM	4818	CD1 ILE B 282	18.743 47.703 51.106 1.00 20.68	С
ATOM	4822	CG2 ILE B 282	19.849 46.556 48.433 1.00 21.56	С
ATOM	4826	C ILE B 282 2	2.356 47.550 47.543 1.00 21.93	C
ATOM	4827	O ILE B 282 2	2.505 46.473 46.962 1.00 22.72	0
ATOM	4828	N VALB 283	22.486 48.715 46.919 1.00 21.41	N
ATOM	4830	CA VAL B 283	22.930 48.769 45.539 1.00 21.34	С
ATOM	4832	CB VAL B 283	22.949 50.210 44.985 1.00 21.18	C

ATOM	4834 CG1 VAL B 283	23.718 50.294 43.702 1.00 21.22	С
ATOM	4838 CG2 VAL B 283	21.549 50.693 44.747 1.00 21.12	C
ATOM	4842 C VAL B 283	24.311 48.160 45.478 1.00 21.51	С
ATOM	4843 O VALB 283	24.513 47.153 44.831 1.00 21.40	0
ATOM	4844 N ASP B 284	25.244 48.783 46.196 1.00 22.34	N
ATOM	4846 CA ASP B 284	26.652 48.375 46.304 1.00 22.25	С
	4848 CB ASP B 284		C
	4851 CG ASP B 284		Ċ
	4852 OD1 ASP B 284	28.189 51.505 47.712 1.00 27.18	0
ATOM	4853 OD2 ASP B 284	27.214 51.208 45.809 1.00 28.63	Ö
	4854 C ASP B 284	26.788 46.890 46.638 1.00 21.52	C
	4855 O ASP B 284	27.562 46.213 46.021 1.00 21.44	Ö
	4856 N PHE B 285	26.010 46.386 47.586 1.00 21.54	Ň
	4858 CA PHE B 285		C
	4860 CB PHE B 285	25.005 44.667 49.037 1.00 21.35	č
	4863 CG PHE B 285	25.024 43.247 49.502 1.00 20.54	Č
	4864 CD1 PHE B 285	26.159 42.711 50.069 1.00 20.53	Č
	4866 CE1 PHE B 285		Č
	4868 CZ PHE B 285	25.076 40.578 50.366 1.00 19.86	C
	4870 CE2 PHE B 285	23.929 41.115 49.811 1.00 20.65	Č
	4872 CD2 PHE B 285	23.908 42.439 49.374 1.00 20.26	Č
	4874 C PHE B 285	25.649 44.053 46.750 1.00 22.43	C
	4875 O PHE B 285	26.387 43.118 46.441 1.00 22.74	Ö
ATOM	4876 N ALA B 286	24.506 44.322 46.125 1.00 22.65	N
ATOM	4878 CA ALA B 286	24.016 43.536 45.005 1.00 22.80	C
	4880 CB ALA B 286	22.704 44.102 44.525 1.00 22.88	Ċ
	4884 C ALA B 286	25.016 43.463 43.865 1.00 23.08	C
ATOM	4885 O ALA B 286	25.214 42.411 43.264 1.00 22.81	Ō
	4886 N LYS B 287	25.685 44.568 43.596 1.00 23.87	N
	4888 CA LYS B 287	26.652 44.602 42.517 1.00 25.11	C
	4890 CB LYS B 287	27.226 46.003 42.344 1.00 25.42	Ċ
	4893 CG LYS B 287		C
	4896 CD LYS B 287	26.832 48.165 41.063 1.00 31.35	C
	4899 CE LYS B 287		С
	4902 NZ LYS B 287	26.647 50.645 41.304 1.00 32.73	N
	4906 C LYS B 287	27.760 43.590 42.722 1.00 25.44	C
	4907 O LYS B 287	28.361 43.137 41.752 1.00 26.61	Ö
	4908 N GLN B 288	28.022 43.224 43.970 1.00 25.27	N
	4910 CA GLN B 288	29.029 42.219 44.288 1.00 25.25	C
	4912 CB GLN B 288	29.717 42.573 45.589 1.00 25.77	č
	4915 CG GLN B 288	29.935 44.035 45.776 1.00 27.24	Č
	4918 CD GLN B 288	31.158 44.290 46.532 1.00 29.33	Ċ
	4919 OE1 GLN B 288	32.196 44.483 45.934 1.00 35.09	0
	4920 NE2 GLN B 288	31.075 44.259 47.853 1.00 29.00	N
	4923 C GLN B 288	28.503 40.805 44.434 1.00 24.86	C
	4924 O GLN B 288	29.283 39.891 44.558 1.00 24.91	Ö
	4925 N VAL B 289	27.195 40.610 44.467 1.00 24.74	Ň
	4927 CA VAL B 289	26.660 39.267 44.486 1.00 24.58	C
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ATOM	4929 CB VAL B 289	25.162 39.251 44.811 1.00 24.53	С
ATOM		24.634 37.835 44.812 1.00 24.69	C
ATOM	4935 CG2 VAL B 289	24.921 39.868 46.156 1.00 23.93	Ċ
ATOM	4939 C VALB 289	26.929 38.717 43.094 1.00 24.83	С
ATOM	4940 O VAL B 289	26.472 39.300 42.122 1.00 25.10	0
ATOM	4941 N PROB 290	27.678 37.620 42.992 1.00 24.94	N
ATOM	4942 CA PROB 290	28.052 37.045 41.695 1.00 24.44	С
ATOM	4944 CB PROB 290	28.777 35.746 42.062 1.00 24.45	С
ATOM	4947 CG PROB 290	29.202 35.917 43.425 1.00 25.44	С
ATOM	4950 CD PROB 290	28.174 36.803 44.112 1.00 25.43	С
ATOM	4953 C PRO B 290	26.825 36.690 40.884 1.00 24.08	С
ATOM	4954 O PRO B 290	25.905 36.024 41.437 1.00 23.85	0
ATOM	4955 N GLY B 291	26.833 37.116 39.612 1.00 23.44	N
ATOM	4957 CA GLY B 291	25.735 36.879 38.694 1.00 23.44	С
ATOM	4960 C GLY B 291	24.833 38.077 38.450 1.00 23.12	C
ATOM	4961 O GLY B 291	24.359 38.280 37.328 1.00 23.38	0
ATOM	4962 N PHE B 292	24.613 38.865 39.502 1.00 22.38	N
ATOM	4964 CA PHE B 292	23.731 40.039 39.480 1.00 21.36	С
ATOM	4966 CB PHE B 292	23.776 40.776 40.851 1.00 20.83	С
ATOM	4969 CG PHE B 292	22.739 41.855 40.973 1.00 18.16	С
ATOM	4970 CD1 PHE B 292	21.476 41.554 41.391 1.00 17.24	C
ATOM	4972 CE1 PHE B 292	20.506 42.530 41.450 1.00 17.80	C
ATOM	4974 CZ PHE B 292	20.809 43.828 41.072 1.00 17.38	C
ATOM	4976 CE2 PHE B 292	22.078 44.131 40.657 1.00 16.22	C
ATOM	4978 CD2 PHE B 292	23.020 43.154 40.591 1.00 16.61	C
ATOM	4980 C PHE B 292	23.986 41.031 38.304 1.00 21.31	C
ATOM	4981 O PHE B 292	23.072 41.350 37.526 1.00 20.13	0
ATOM	4982 N LEUB 293	25.219 41.508 38.186 1.00 21.18	N
ATOM	4984 CA LEUB 293	25.568 42.430 37.111 1.00 21.76	C
ATOM	4986 CB LEU B 293	27.022 42.927 37.264 1.00 21.82	C
ATOM	4989 CG LEUB 293	27.303 43.908 38.421 1.00 22.75	C
ATOM	4991 CD1 LEU B 293	28.745 44.210 38.488 1.00 22.25	С
ATOM	4995 CD2 LEU B 293	26.506 45.225 38.324 1.00 24.06	C
ATOM	4999 C LEUB 293	25.341 41.853 35.687 1.00 21.89	C
ATOM	5000 O LEUB 293	25.247 42.629 34.722 1.00 22.16	Ο
ATOM	5001 N GLN B 294	25.257 40.519 35.553 1.00 21.83	N
ATOM	5003 CA GLN B 294	25.055 39.871 34.241 1.00 21.53	C
ATOM	5005 CB GLN B 294	25.824 38.545 34.149 1.00 22.04	C
ATOM	5008 CG GLN B 294	27.313 38.716 33.899 1.00 22.88	C
ATOM	5011 CD GLN B 294	28.025 39.240 35.129 1.00 24.99	C
ATOM	5012 OE1 GLN B 294	27.859 38.682 36.221 1.00 27.10	0
ATOM	5013 NE2 GLN B 294	28.787 40.333 34.974 1.00 25.18	N
ATOM	5016 C GLN B 294	23.570 39.685 33.869 1.00 20.64	C
ATOM	5017 O GLN B 294	23.257 39.291 32.760 1.00 20.25	0
ATOM	5018 N LEUB 295	22.671 39.985 34.798 1.00 19.78	N
ATOM	5020 CA LEUB 295	21.258 40.109 34.485 1.00 19.15	C
ATOM	5022 CB LEU B 295	20.419 40.160 35.768 1.00 18.87	C
ATOM	5025 CG LEUB 295	20.556 38.976 36.727 1.00 18.40	C

ATOM	5027	CD1 LEU B 295	19.715 39.168 38.003 1.00 17.43	С
ATOM		CD2 LEU B 295		C
ATOM	5035	C LEU B 295	21.079 41.397 33.705 1.00 19.02	С
ATOM	5036	O LEU B 295	21.824 42.353 33.912 1.00 19.01	0
ATOM	5037	N GLY B 296	20.107 41.431 32.802 1.00 18.97	N
ATOM	5039	CA GLY B 296	19.738 42.676 32.149 1.00 18.83	С
ATOM	5042	C GLY B 296	19.520 43.804 33.148 1.00 18.89	С
ATOM	5043	O GLY B 296	18.954 43.608 34.222 1.00 18.57	O
ATOM	5044	N ARG B 297	19.967 44.997 32.797 1.00 19.04	N
ATOM	5046	CA ARG B 297	19.892 46.109 33.732 1.00 19.82	C
ATOM	5048	CB ARG B 297	20.503 47.381 33.145 1.00 20.40	С
ATOM	5051	CG ARG B 297	20.706 48.509 34.209 1.00 25.47	C
ATOM	5054	CD ARG B 297	21.667 49.639 33.716 1.00 32.84	C
ATOM	5057	NE ARG B 297	21.746 50.888 34.511 1.00 37.15	N
ATOM	5059	CZ ARG B 297	20.774 51.808 34.643 1.00 40.07	С
ATOM	5060	NH1 ARG B 297	19.591 51.645 34.067 1.00 41.83	N
ATOM	5063	NH2 ARG B 297	20.978 52.896 35.381 1.00 40.87	N
ATOM	5066	C ARG B 297	18.464 46.387 34.242 1.00 18.56	C
ATOM	5067	O ARG B 297	18.282 46.799 35.394 1.00 18.69	Ο
ATOM	5068	N GLU B 298	17.462 46.154 33.410 1.00 17.09	N
ATOM	5070	CA GLU B 298	16.095 46.419 33.822 1.00 16.30	C
ATOM	5072	CB GLU B 298	15.140 46.397 32.633 1.00 16.18	C
ATOM	5075	CG GLU B 298	15.308 47.616 31.754 1.00 16.34	С
ATOM	5078	CD GLU B 298	14.432 47.610 30.516 1.00 17.34	C
ATOM	5079	OE1 GLU B 298	14.145 46.520 29.956 1.00 17.09	О
ATOM	5080	OE2 GLU B 298	14.051 48.725 30.093 1.00 17.25	O
ATOM	5081	C GLU B 298	15.669 45.459 34.917 1.00 15.45	C
ATOM	5082	O GLU B 298	15.004 45.862 35.842 1.00 14.23	Ο
ATOM	5083	N ASP B 299	16.099 44.208 34.820 1.00 15.32	N
ATOM	5085	CA ASP B 299	15.837 43.212 35.848 1.00 15.38	С
ATOM	5087	CB ASP B 299	16.176 41.816 35.354 1.00 15.65	С
ATOM		CG ASP B 299		С
ATOM	5091	OD1 ASP B 299	14.197 42.027 34.084 1.00 17.09	Ο
ATOM	5092	OD2 ASP B 299	15.079 40.030 34.111 1.00 18.02	O
		C ASP B 299	16.642 43.493 37.088 1.00 15.54	C
ATOM		O ASP B 299	16.178 43.232 38.182 1.00 15.50	О
		N GLN B 300	17.854 44.017 36.945 1.00 15.75	N
		CA GLN B 300	18.616 44.408 38.125 1.00 16.03	С
		CB GLN B 300	19.960 45.046 37.765 1.00 16.08	C
		CG GLN B 300	21.037 44.091 37.367 1.00 16.28	С
		CD GLN B 300	22.162 44.827 36.691 1.00 16.76	С
		OE1 GLN B 300	22.495 45.921 37.113 1.00 18.65	О
		NE2 GLN B 300	22.729 44.256 35.635 1.00 17.16	N
		C GLN B 300	17.801 45.452 38.869 1.00 16.45	С
		O GLN B 300	17.594 45.347 40.075 1.00 16.44	0
		N ILE B 301	17.379 46.489 38.147 1.00 16.69	N
			16.582 47.549 38.751 1.00 17.30	C
ATOM	5116	CB ILE B 301	16.212 48.604 37.713 1.00 17.31	С

ATOM 5118 CG1 ILE B 301 17.386 49.547 37.487 1.00 18.26 C ATOM 5121 CD1 ILE B 301 17.252 50.424 36.211 1.00 18.99 C ATOM 5125 CG2 ILE B 301 15.010 49.390 38.158 1.00 17.43 C ATOM 5129 C ILE B 301 15.314 46.991 39.389 1.00 17.65 C ATOM 5130 O ILE B 301 14.943 47.392 40.474 1.00 18.77 0 ATOM 5131 N ALA B 302 14.653 46.069 38.718 1.00 17.35 N ATOM 5133 CA ALA B 302 13.410 45.554 39.208 1.00 17.68 C ATOM 5135 CB ALA B 302 12.670 44.722 38.070 1.00 17.98 C ATOM 5139 C ALA B 302 13.638 44.702 40.463 1.00 18.37 C 12.785 44.672 41.359 1.00 18.56 ATOM 5140 O ALA B 302 0 ATOM 5141 N LEU B 303 ... 14.763 43.988 40.544 1.00 18.70 N ATOM 5143 CA LEU B 303 15.010 43.181 41.743 1.00 19.16 C ATOM 5145 CB LEU B 303 16.131 42.160 41.550 1.00 18.94 ATOM 5148 CG LEU B 303 15.921 41.116 40.456 1.00 19.63 ATOM 5150 CD1 LEU B 303 17.184 40.296 40.243 1.00 19.51 C ATOM 5154 CD2 LEU B 303 14.704 40.222 40.770 1.00 20.37 \mathbf{C} ATOM 5158 C LEU B 303 15.315 44.089 42.927 1.00 19.53 C ATOM 5159 O LEUB 303 14.855 43.820 44.029 1.00 19.40 0 ATOM 5160 N LEU B 304 16.067 45.164 42.696 1.00 20.29 N ATOM 5162 CA LEU B 304 16.414 46.076 43.770 1.00 21.41 C ATOM 5164 CB LEU B 304 17.634 46.895 43.428 1.00 21.75 ATOM 5167 CG LEU B 304 18.982 46.131 43.413 1.00 24.86 ATOM 5169 CD1 LEU B 304 20.059 46.873 42.548 1.00 25.83 C ATOM 5173 CD2 LEU B 304 19.577 45.925 44.776 1.00 25.83 C ATOM 5177 C LEU B 304 15.228 46.974 44.198 1.00 21.93 C ATOM 5178 O LEUB 304 15.114 47.265 45.391 1.00 21.91 0 ATOM 5179 N LYS B 305 14.324 47.362 43.284 1.00 22.09 N ATOM 5181 CA LYS B 305 13.119 48.093 43.698 1.00 22.86 C ATOM 5183 CB LYS B 305 12.230 48.461 42.517 1.00 23.46 C ATOM 5186 CG LYS B 305 12.565 49.779 41.914 1.00 27.72 ATOM 5189 CD LYS B 305 11.368 50.518 41.287 1.00 31.54 C ATOM 5192 CE LYS B 305 11.958 51.725 40.463 1.00 33.94 C ATOM 5195 NZ LYS B 305 11.003 52.390 39.507 1.00 35.51 N ATOM 5199 C LYS B 305 12.253 47.312 44.692 1.00 22.71 C ATOM 5200 O LYS B 305 11.634 47.877 45.582 1.00 23.22 0 ATOM 5201 N ALA B 306 12.176 46.011 44.509 1.00 22.44 N ATOM 5203 CA ALA B 306 11.287 45.195 45.294 1.00 21.84 C ATOM 5205 CB ALA B 306 10.852 44.021 44.489 1.00 21.78 C ATOM 5209 C ALA B 306 11.985 44.734 46.574 1.00 21.85 C ATOM 5210 O ALA B 306 11.387 44.778 47.648 1.00 21.97 0 ATOM 5211 N SER B 307 13.245 44.298 46.464 1.00 21.25 N ATOM 5213 CA SER B 307 13.925 43.658 47.592 1.00 20.58 \mathbf{C} ATOM 5215 CB SER B 307 15.040 42.740 47.110 1.00 19.92 C ATOM 5218 OG SER B 307 15.948 43.478 46.369 1.00 21.56 0 ATOM 5220 C SER B 307 14.491 44.664 48.592 1.00 20.10 C ATOM 5221 O SER B 307 14.849 44.277 49.686 1.00 20.12 0 ATOM 5222 N THR B 308 14.550 45.947 48.233 1.00 19.53 N ATOM 5224 CA THR B 308 15.229 46.952 49.060 1.00 18.86 C

ATOM	5226 CB THR B 308	15.309 48.319 48.323 1.00 18.63	С
		16.445 48.318 47.466 1.00 16.35	C
ATOM		15.592 49.455 49.275 1.00 18.82	C
ATOM			C
ATOM		15.308 46.991 51.470 1.00 19.34	Ō
ATOM		13.318 47.340 50.512 1.00 18.64	N
		12.636 47.468 51.791 1.00 18.62	С
		11.142 47.861 51.596 1.00 18.32	Ċ
ATOM		10.484 48.168 52.933 1.00 18.77	C
ATOM		11.060 49.377 53.632 1.00 20.64	C
ATOM			С
ATOM	5253 C ILE B 309	12.820 46.171 52.564 1.00 18.73	C
ATOM	5254 O ILE B 309	13.185 46.183 53.730 1.00 18.87	O
ATOM	5255 N GLU B 310	12.650 45.045 51.890 1.00 18.92	N
ATOM		12.748 43.765 52.577 1.00 19.35	С
ATOM		12.283 42.585 51.681 1.00 19.39	С
ATOM	5262 CG GLU B 310	10.846 42.760 51.182 1.00 19.11	С
ATOM	5265 CD GLU B 310		С
	5266 OE1 GLU B 310		O
ATOM	5267 OE2 GLU B 310	9.517 42.049 49.385 1.00 15.70	Ο
ATOM	5268 C GLU B 310	14.153 43.556 53.164 1.00 19.28	C
ATOM	5269 O GLUB 310	14.275 43.145 54.297 1.00 20.06	O
ATOM	5270 N ILE B 311	15.207 43.841 52.426 1.00 19.11	N
ATOM	5272 CA ILE B 311	16.549 43.727 52.981 1.00 19.43	C
ATOM	5274 CB ILE B 311	17.584 44.028 51.873 1.00 19.38	С
ATOM	5276 CG1 ILE B 311	17.584 42.886 50.853 1.00 21.23	С
ATOM	5279 CD1 ILE B 311	18.328 43.161 49.548 1.00 21.91	С
ATOM	5283 CG2 ILE B 311	18.974 44.144 52.425 1.00 19.92	C
ATOM	5287 C ILE B 311	16.668 44.677 54.216 1.00 19.73	C
ATOM	5288 O ILE B 311	17.214 44.305 55.261 1.00 19.63	O
ATOM	5289 N MET B 312	16.111 45.888 54.106 1.00 19.63	N
ATOM	5291 CA MET B 312	16.140 46.851 55.207 1.00 19.06	C
ATOM	5293 CB MET B 312	15.467 48.164 54.811 1.00 18.57	C
ATOM	5296 CG MET B 312	16.294 49.026 53.923 1.00 19.46	С
ATOM	5299 SD MET B 312	15.294 50.248 53.037 1.00 23.22	S
ATOM	5300 CE MET B 312	15.641 51.542 53.930 1.00 27.05	C
ATOM	5304 C MET B 312	15.461 46.264 56.451 1.00 18.73	C
ATOM	5305 O MET B 312	15.933 46.461 57.565 1.00 18.21	О
ATOM	5306 N LEU B 313	14.357 45.546 56.248 1.00 18.54	N
ATOM	5308 CA LEU B 313	13.606 44.939 57.357 1.00 18.41	С
ATOM	5310 CB LEU B 313	12.261 44.396 56.876 1.00 17.85	С
ATOM	5313 CG LEUB 313	11.193 45.454 56.757 1.00 18.52	С
ATOM	5315 CD1 LEU B 313	10.155 44.996 55.724 1.00 19.77	C
ATOM	5319 CD2 LEU B 313	10.548 45.721 58.115 1.00 18.67	C
ATOM	5323 C LEU B 313	14.382 43.816 58.035 1.00 18.44	C
ATOM	5324 O LEU B 313	14.256 43.619 59.221 1.00 16.86	0
ATOM	5325 N LEUB 314	15.143 43.070 57.238 1.00 19.37	N
ATOM	5327 CA LEU B 314	16.043 42.042 57.722 1.00 20.48	C

ATOM	5329 CB LEU B 314	16.708 41.300 56.539 1.00 20.72	С
ATOM	5332 CG LEU B 314	16.283 39.877 56.126 1.00 22.28	С
ATOM	5334 CD1 LEU B 314	15.200 39.194 57.028 1.00 22.02	С
ATOM	5338 CD2 LEU B 314	15.826 39.912 54.674 1.00 24.01	C
ATOM	5342 C LEU B 314	17.132 42.690 58.574 1.00 20.74	С
ATOM	5343 O LEUB 314	17.544 42.140 59.580 1.00 20.37	O
ATOM	5344 N GLU B 315	17.581 43.864 58.144 1.00 21.40	N
		18.733 44.534 58.729 1.00 21.89	С
		19.338 45.547 57.731 1.00 22.24	С
		20.322 44.933 56.737 1.00 23.69	С
		21.575 44.379 57.398 1.00 27.48	С
		22.095 45.017 58.310 1.00 31.94	Ō
		22.056 43.300 57.029 1.00 31.90	ŏ
		18.300 45.192 60.016 1.00 21.60	C
		19.024 45.189 61.009 1.00 21.91	Ö
		17.097 45.733 59.984 1.00 21.60	Ň
		16.403 46.195 61.177 1.00 21.80	Ĉ
		15.031 46.791 60.788 1.00 22.31	č
		15.237 47.956 59.981 1.00 23.26	o
		14.255 47.346 62.002 1.00 22.77	Č
		16.246 45.094 62.210 1.00 21.08	c
		16.609 45.283 63.341 1.00 21.20	Ö
		15.745 43.935 61.824 1.00 21.00	N
		15.554 42.836 62.770 1.00 20.86	C
		14.841 41.671 62.116 1.00 20.23	C
	5381 C ALAB 317		c
		17.018 42.112 64.524 1.00 20.97	0
		17.018 42.112 64.324 1.00 20.97	N
		19.226 41.827 62.796 1.00 24.26	
		20.116 41.839 61.554 1.00 24.61	C
			C
		21.565 41.506 61.785 1.00 27.30	C
		22.441 41.899 60.624 1.00 31.26	
		23.506 40.917 60.464 1.00 35.50	N
	5398 CZ ARG B 318		C
	5399 NH1 ARG B 318	23.378 40.814 58.141 1.00 40.24	N
	5402 NH2 ARG B 318	24.899 39.516 59.287 1.00 40.03	N
	5405 C ARG B 318	19.865 42.652 63.893 1.00 24.70	C
	5406 O ARG B 318	20.676 42.149 64.669 1.00 24.10	0
	5407 N ARG B 319	19.481 43.923 63.941 1.00 25.45	N
	5409 CA ARG B 319		C
	5411 CB ARG B 319		C
	5414 CG ARG B 319	21.829 46.223 63.790 1.00 31.66	C
	5417 CD ARG B 319	22.152 47.171 62.655 1.00 36.71	C
	5420 NE ARG B 319	22.671 46.475 61.483 1.00 40.23	N
	5422 CZ ARG B 319	23.531 47.013 60.638 1.00 43.84	C
	5423 NH1 ARG B 319	23.969 48.264 60.829 1.00 45.76	N
		23.975 46.303 59.604 1.00 44.34	N
ATOM	5429 C ARG B 319	19.124 45.106 66.139 1.00 25.53	С

ATOM	5430 O ARG B 319	19.473 45.867 67.026 1.00 26.02	Ο
ATOM	5431 N TYR B 320	17.994 44.421 66.196 1.00 24.69	N
ATOM	5433 CA TYR B 320	17.080 44.492 67.331 1.00 23.67	С
		15.796 43.722 67.020 1.00 23.61	č
		14.850 43.664 68.179 1.00 22.41	Č
_		14.200 44.809 68.620 1.00 22.51	C
		13.309 44.769 69.698 1.00 23.50	C
		13.084 43.567 70.356 1.00 23.49	c
		12.216 43.506 71.426 1.00 22.21	O
		13.735 42.414 69.925 1.00 23.51	C
		14.606 42.470 68.832 1.00 22.26	C
	5450 C TYR B 320		_
			C
	5451 O TYR B 320		0
		17.443 44.534 69.698 1.00 22.27	N
		18.003 44.149 70.973 1.00 21.53	C
		19.019 45.211 71.389 1.00 21.58	,C
		19.546 45.038 72.808 1.00 21.22	C
		18.880 44.505 73.707 1.00 21.24	O
ATOM	5461 ND2 ASN B 321	20.753 45.527 73.018 1.00 19.82	N
ATOM	5464 C ASN B 321	16.814 44.048 71.923 1.00 21.27	С
ATOM	5465 O ASN B 321	16.111 45.024 72.171 1.00 19.93	O
ATOM	5466 N HIS B 322	16.588 42.842 72.427 1.00 21.61	N
ATOM	5468 CA HIS B 322	15.390 42.538 73.194 1.00 21.93	C
ATOM	5470 CB HIS B 322	15.038 41.042 73.048 1.00 22.03	C
ATOM	5473 CG HIS B 322	13.659 40.684 73.529 1.00 22.23	C
ATOM	5474 ND1 HIS B 322	12.533 41.407 73.188 1.00 21.02	N
ATOM	5476 CE1 HIS B 322	11.475 40.862 73.759 1.00 21.69	С
		11.872 39.810 74.456 1.00 21.62	N
		13.233 39.681 74.336 1.00 21.10	C
		15.504 42.972 74.668 1.00 21.69	C
		14.503 43.043 75.371 1.00 20.75	Ö
		16.708 43.279 75.127 1.00 22.24	
		16.858 43.883 76.452 1.00 23.45	
	5488 CB GLU B 323		Č
	5491 CG GLU B 323		C
	5494 CD GLUB 323		C
		21.284 43.480 76.576 1.00 31.88	0
	5496 OE2 GLU B 323	20.948 43.500 78.797 1.00 30.01	
			0
	5497 C GLUB 323	16.234 45.280 76.497 1.00 23.08	C
	5498 O GLUB 323		0
	5499 N THR B 324		N
	5501 CA THR B 324		C
	5503 CB THR B 324		C
	5505 OG1 THR B 324		0
	5507 CG2 THR B 324		C
	5511 C THR B 324	14.920 47.715 74.514 1.00 21.94	С
	5512 O THR B 324		Ο
ATOM	5513 N GLUB 325	14.554 46.685 73.756 1.00 22.08	N

ATOM	5515	CA GLU B 325	13.502 46.756 72.736 1.00 22.38	С
ATOM	5517	CB GLU B 325	12.116 46.851 73.401 1.00 22.40	С
ATOM	5520	CG GLU B 325	11.987 45.854 74.552 1.00 24.15	С
ATOM	5523	CD GLU B 325	10.606 45.742 75.186 1.00 26.69	C
ATOM	5524	OE1 GLU B 325	10.458 46.045 76.403 1.00 27.58	Ο
ATOM	5525	OE2 GLU B 325	9.676 45.302 74.487 1.00 29.29	О
ATOM	5526	C GLU B 325	13.801 47.867 71.712 1.00 22.25	C
ATOM	5527	O GLU B 325	12.936 48.611 71.302 1.00 21.35	O
ATOM	5528	N CYS B 326	15.058 47.939 71.299 1.00 22.98	N
ATOM	5530	CA CYS B 326	15.511 48.981 70.405 1.00 23.87	С
ATOM	5532	CB CYS B 326	16.413 49.983 71.132 1.00 23.67	C
ATOM	5535	SG CYS B 326	15.550 51.068 72.285 1.00 21.30	S
ATOM	5536	C CYS B 326	16.286 48.416 69.240 1.00 25.69	C
ATOM	5537	O CYS B 326	17.039 47.443 69.379 1.00 26.02	O
ATOM	5538	N ILE B 327	16.126 49.093 68.106 1.00 27.55	N
ATOM	5540	CA ILE B 327	16.757 48.752 66.845 1.00 28.95	C
ATOM	5542	CB ILE B 327	15.708 48.907 65.725 1.00 28.96	C
ATOM	5544	CG1 ILE B 327	15.026 47.557 65.493 1.00 29.19	С
ATOM	5547	CD1 ILE B 327	13.599 47.545 65.870 1.00 29.18	С
ATOM	5551	CG2 ILE B 327	16.303 49.455 64.451 1.00 28.76	С
ATOM	5555	C ILE B 327	17.955 49.657 66.619 1.00 30.54	C
ATOM	5556	O ILE B 327	17.883 50.865 66.817 1.00 30.82	O
ATOM	5557	N THR B 328	19.056 49.049 66.197 1.00 32.63	N
ATOM	5559	CA THR B 328	20.318 49.747 65.921 1.00 34.04	С
ATOM	5561	CB THR B 328	21.492 48.901 66.500 1.00 33.69	С
ATOM	5563	OG1 THR B 328	21.413 48.902 67.934 1.00 33.36	O
ATOM	5565	CG2 THR B 328	22.852 49.507 66.178 1.00 33.49	С
ATOM	5569	C THR B 328	20.484 50.039 64.391 1.00 35.61	C
ATOM	5570	O THR B 328	20.061 49.246 63.527 1.00 36.66	O
			21.045 51.196 64.055 1.00 36.68	N
ATOM	5573	CA PHE B 329	21.391 51.481 62.674 1.00 37.46	C
ATOM	5575	CB PHE B 329	20.269 52.256 61.999 1.00 37.23	С
ATOM	5578	CG PHE B 329	20.046 51.887 60.547 1.00 35.32	С
		CD1 PHE B 329		С
		CE1 PHE B 329	19.370 50.251 58.774 1.00 32.44	С
ATOM	5583	CZ PHE B 329	19.600 51.240 57.779 1.00 32.28	С
ATOM	5585	CE2 PHE B 329	20.061 52.534 58.160 1.00 32.50	С
ATOM	5587	CD2 PHE B 329	20.277 52.845 59.539 1.00 33.37	С
		C PHE B 329	22.685 52.267 62.636 1.00 38.95	С
		O PHE B 329	23.031 52.983 63.605 1.00 39.29	0
		N ALA B 330	23.401 52.110 61.519 1.00 40.52	N
		CA ALAB 330	24.692 52.784 61.250 1.00 41.72	С
		CB ALA B 330	24.448 54.292 60.856 1.00 41.87	C
		C ALA B 330	25.755 52.665 62.382 1.00 42.50	C
		O ALA B 330	26.510 53.613 62.635 1.00 42.94	Ō
ATOM		N LYS B 331	25.796 51.501 63.047 1.00 42.97	N
			26.769 51.187 64.109 1.00 42.98	C
		CB LYS B 331	28.154 51.807 63.813 1.00 43.35	Č
				_

ATOM	5608	CG LYS B 331	29.367 50.949 64.245 1.00 44.35	С
ATOM	5611	CD LYS B 331	30.132 51.529 65.477 1.00 44.51	C
ATOM	5614	CE LYS B 331	31.650 51.256 65.436 1.00 43.98	С
ATOM	5617	NZ LYS B 331	32.088 50.219 66.425 1.00 43.27	N
ATOM	5621	C LYS B 331	26.321 51.574 65.528 1.00 42.54	С
ATOM	5622	O LYS B 331	26.393 50.745 66.441 1.00 42.68	0
ATOM	5623	N ASP B 332	25.870 52.816 65.715 1.00 41.85	N
ATOM	5625	CA ASP B 332	25.744 53.405 67.066 1.00 41.27	C
ATOM	5627	CB ASP B 332	26.648 54.643 67.166 1.00 41.37	C
ATOM	5630	CG ASP B 332	27.916 54.376 67.939 1.00 43.32	C
ATOM	5631	OD1 ASP B 332	27.800 53.754 69.015 1.00 45.82	0
ATOM	5632	OD2 ASP B 332	29.066 54.755 67.569 1.00 45.99	0
ATOM	5633	C ASP B 332	24.324 53.807 67.519 1.00 40.06	C
ATOM	5634	O ASP B 332	23.973 53.629 68.694 1.00 40.21	0
ATOM		N PHE B 333	23.535 54.375 66.597 1.00 38.31	N
ATOM		CA PHE B 333		C
ATOM		CB PHE B 333	21.821 55.986 65.783 1.00 36.85	C
		CG PHE B 333	22.803 57.109 65.449 1.00 37.25	C
			22.727 57.744 64.202 1.00 37.78	C
			23.602 58.776 63.859 1.00 37.52	C
		CZ PHE B 333		C
			24.676 58.572 66.010 1.00 38.44	C
ATOM		00	23.782 57.535 66.354 1.00 38.00	C
ATOM		C PHE B 333	21.173 54.003 67.152 1.00 34.39	C
ATOM		O PHE B 333	21.133 53.011 66.425 1.00 34.49	0
ATOM		N THR B 334	20.298 54.213 68.142 1.00 31.37	N
ATOM			19.233 53.245 68.423 1.00 28.90	C
ATOM			19.489 52.472 69.735 1.00 28.73	C
ATOM		OG1 THR B 334	19.395 53.347 70.856 1.00 27.84	0
ATOM			20.913 51.951 69.798 1.00 28.88	C
			17.885 53.907 68.487 1.00 27.01	C
			17.776 55.056 68.881 1.00 26.50	0
			16.857 53.163 68.094 1.00 25.11	N
		CA TYR B 335	15.482 53.674 68.054 1.00 23.96	C
		CB TYR B 335	15.043 53.947 66.594 1.00 23.57	C
		CG TYR B 335	16.081 54.764 65.863 1.00 22.27	C
		CD1 TYR B 335	17.128 54.140 65.207 1.00 20.83	C
		CEI TYR B 335	18.116 54.874 64.591 1.00 21.68	С
		CZ TYR B 335	18.077 56.255 64.643 1.00 21.74	C
		OH TYR B 335	19.076 56.954 64.007 1.00 22.73	0
ATOM		CE2 TYR B 335	17.057 56.908 65.313 1.00 20.42	C
ATOM		CD2 TYR B 335	16.070 56.163 65.920 1.00 20.65	C
ATOM		C TYR B 335	14.527 52.719 68.769 1.00 23.17	C
ATOM	5689		14.706 51.506 68.715 1.00 22.58	0
ATOM	5690		13.536 53.282 69.456 1.00 22.23	N
ATOM		CA SER B 336	12.465 52.499 70.058 1.00 21.91	C
		CB SER B 336	12.186 53.014 71.455 1.00 21.67	C
ATOM	/ צסכ	OG SER B 336	11.627 54.304 71.383 1.00 20.32	О

ATOM	5699 C SER B 336	11.171 52.601 69.229 1.00 22.21	С
ATOM	5700 O SER B 336	11.056 53.445 68.355 1.00 22.11	0
ATOM	5701 N LYS B 337	10.192 51.751 69.532 1.00 22.30	N
ATOM	5703 CA LYS B 337	8.848 51.861 68.971 1.00 22.58	C
ATOM	5705 CB LYS B 337	7.838 51.000 69.766 1.00 22.86	С
ATOM	5708 CG LYS B 337	7.845 49.503 69.388 1.00 25.37	C
ATOM	5711 CD LYS B 337	6.937 48.610 70.288 1.00 28.27	С
ATOM	5714 CE LYS B 337	7.472 48.443 71.774 1.00 29.61	С
ATOM	5717 NZ LYS B 337	8.733 47.647 71.941 1.00 28.77	N
ATOM	5721 C LYS B 337	8.395 53.315 68.969 1.00 22.19	C
ATOM	5722 O LYS B 337	7.792 53.773 68.012 1.00 22.00	Ο
ATOM	5723 N ASP B 338	8.688 54.035 70.047 1.00 22.23	N
ATOM	5725 CA ASP B 338	8.183 55.401 70.219 1.00 22.28	C
ATOM	5727 CB ASP B 338	8.176 55.799 71.694 1.00 22.08	C
ATOM	5730 CG ASP B 338	7.074 55.120 72.462 1.00 22.94	C
ATOM	5731 OD1 ASP B 338	6.945 55.394 73.666 1.00 26.13	О
ATOM	5732 OD2 ASP B 338	6.268 54.313 71.955 1.00 23.05	О
ATOM	5733 C ASP B 338	8.939 56.433 69.387 1.00 22.00	C
ATOM	5734 O ASP B 338	8.362 57.451 69.002 1.00 21.99	Ο
ATOM	5735 N ASP B 339	10.217 56.178 69.122 1.00 21.47	N
ATOM	5737 CA ASP B 339	10.983 57.016 68.209 1.00 21.22	C
ATOM	5739 CB ASP B 339	12.451 56.590 68.187 1.00 21.14	C
ATOM	5742 CG ASP B 339	13.153 56.814 69.514 1.00 19.12	C
ATOM	5743 OD1 ASP B 339	12.607 57.516 70.397 1.00 18.47	O
ATOM	5744 OD2 ASP B 339	14.272 56.317 69.737 1.00 15.17	О
ATOM	5745 C ASP B 339	10.395 56.922 66.805 1.00 21.49	C
ATOM	5746 O ASP B 339	10.181 57.936 66.157 1.00 21.88	Ο
ATOM	5747 N PHE B 340	10.124 55.703 66.355 1.00 21.61	N
ATOM	5749 CA PHE B 340	9.421 55.456 65.104 1.00 22.23	С
ATOM	5751 CB PHE B 340	9.155 53.956 64.950 1.00 22.07	C
		10.312 53.168 64.340 1.00 22.43	C
	5755 CD1 PHE B 340		C
	5757 CE1 PHE B 340		C
	5759 CZ PHE B 340		С
	5761 CE2 PHE B 340		С
	5763 CD2 PHE B 340	10.217 52.643 63.057 1.00 24.99	C
	5765 C PHE B 340	8.085 56.224 65.016 1.00 23.08	С
	5766 O PHE B 340	7.752 56.773 63.975 1.00 22.89	О
	5767 N HIS B 341	7.337 56.258 66.119 1.00 24.44	N
	5769 CA HIS B 341	6.057 56.966 66.211 1.00 25.29	С
	5771 CB HIS B 341	5.207 56.459 67.399 1.00 25.49	С
	5774 CG HIS B 341	3.867 57.130 67.497 1.00 29.92	С
	5775 ND1 HIS B 341	2.912 57.037 66.504 1.00 34.31	N
	5777 CE1 HIS B 341	1.857 57.767 66.834 1.00 35.62	C
	5779 NE2 HIS B 341	2.092 58.339 68.004 1.00 35.84	N
	5781 CD2 HIS B 341	3.349 57.971 68.434 1.00 34.74	С
	5783 C HIS B 341	6.269 58.470 66.325 1.00 25.32	C
ATOM	5784 O HIS B 341	5.413 59.248 65.912 1.00 25.52	O

ATOM	5785 N ARG B 342	7.403 58.886 66.884 1.00 25.67	N
ATOM		7.733 60.315 67.005 1.00 25.80	С
ATOM		8.877 60.541 67.983 1.00 26.04	Ċ
ATOM		8.462 60.654 69.435 1.00 27.57	Ċ
ATOM	5795 CD ARG B 342	9.666 60.676 70.390 1.00 29.94	Ċ
		9.657 59.520 71.283 1.00 31.90	N
		9.249 59.536 72.543 1.00 33.91	C
ATOM			N
ATOM		9.271 58.405 73.236 1.00 35.42	N
ATOM	5807 C ARG B 342		C
ATOM			Ō
ATOM	5809 N ALA B 343		N
ATOM	5811 CA ALA B 343	8.843 60.320 63.348 1.00 24.59	С
ATOM	5813 CB ALA B 343	9.897 59.295 62.806 1.00 24.44	C
ATOM	5817 C ALA B 343	7.596 60.310 62.444 1.00 24.35	С
ATOM	5818 O ALA B 343	7.723 60.401 61.238 1.00 24.68	O
ATOM	5819 N GLY B 344	6.406 60.159 63.031 1.00 24.10	N
ATOM	5821 CA GLY B 344	5.129 60.248 62.335 1.00 23.57	С
ATOM	5824 C GLY B 344	4.644 58.972 61.669 1.00 23.22	С
ATOM	5825 O GLY B 344	3.623 58.977 60.969 1.00 23.29	O
ATOM	5826 N LEUB 345	5.386 57.883 61.834 1.00 22.86	N
ATOM	5828 CA LEUB 345	4.956 56.594 61.301 1.00 22.72	С
ATOM	5830 CB LEU B 345	6.100 55.563 61.268 1.00 22.72	C
ATOM	5833 CG LEU B 345	7.542 55.885 60.835 1.00 22.71	C
ATOM	5835 CD1 LEU B 345	8.243 54.642 60.289 1.00 23.31	C
ATOM	5839 CD2 LEU B 345	7.591 56.950 59.811 1.00 23.73	C
ATOM	5843 C LEUB 345	3.789 56.098 62.161 1.00 22.68	С
ATOM	5844 O LEUB 345	3.644 56.491 63.315 1.00 22.90	Ο
ATOM	5845 N GLN B 346	2.941 55.263 61.577 1.00 22.89	N
ATOM	5847 CA GLN B 346	1.715 54.789 62.221 1.00 22.82	С
ATOM	5849 CB GLN B 346	0.550 54.784 61.225 1.00 22.68	C
ATOM	5852 CG GLN B 346	0.687 53.739 60.126 1.00 22.89	C
ATOM	5855 CD GLN B 346	-0.168 53.998 58.906 1.00 22.91	C
ATOM	5856 OE1 GLN B 346	-1.027 54.876 58.899 1.00 25.22	О
ATOM	5857 NE2 GLN B 346	0.059 53.219 57.874 1.00 22.78	N
ATOM	5860 C GLN B 346	1.919 53.394 62.798 1.00 22.78	C
ATOM	5861 O GLN B 346	2.836 52.673 62.400 1.00 22.46	Ο
ATOM	5862 N VALB 347	1.042 53.025 63.724 1.00 22.81	N
ATOM	5864 CA VALB 347	1.178 51.779 64.471 1.00 22.84	C
ATOM	5866 CB VAL B 347	0.220 51.775 65.691 1.00 23.00	C
ATOM	5868 CG1 VAL B 347	-0.117 50.386 66.156 1.00 23.34	С
ATOM	5872 CG2 VAL B 347	0.876 52.539 66.834 1.00 23.60	C
ATOM	5876 C VALB 347	1.004 50.553 63.575 1.00 22.61	С
ATOM	5877 O VALB 347	1.561 49.473 63.850 1.00 22.18	0
ATOM	5878 N GLU B 348	0.288 50.742 62.474 1.00 22.39	N
ATOM	5880 CA GLU B 348	-0.002 49.652 61.540 1.00 22.40	C
ATOM	5882 CB GLU B 348	-1.058 50.089 60.518 1.00 22.76	C
ATOM	5885 CG GLU B 348	-2.452 50.344 61.111 1.00 24.13	C

ATOM	5888 CD GLUB 348	-2.650 51.716 61.766 1.00 27.04	С
		-1.883 52.665 61.519 1.00 28.52	C
ATOM		-3.600 51.859 62.559 1.00 30.28	C
ATOM	5891 C GLUB 348		Ċ
ATOM	5892 O GLUB 348		Ö
ATOM	5893 N PHE B 349		N
ATOM		3.660 49.505 60.322 1.00 20.45	C
ATOM		4.142 50.643 59.376 1.00 20.64	Č
ATOM		5.471 50.394 58.677 1.00 20.78	Č
ATOM		5.748 49.196 58.058 1.00 21.02	C
ATOM		6.962 48.998 57.425 1.00 20.54	C
ATOM		7.903 50.006 57.374 1.00 19.72	c
ATOM		7.641 51.199 57.957 1.00 19.91	C
ATOM		6.433 51.401 58.611 1.00 21.36	C
		4.690 49.228 61.413 1.00 19.62	c
ATOM		5.443 48.274 61.329 1.00 19.67	Ö
ATOM		4.695 50.055 62.444 1.00 19.19	N
ATOM		5.594 49.897 63.577 1.00 18.87	C
ATOM			Č
		5.726 52.360 63.858 1.00 17.95	C
		5.383 53.531 64.691 1.00 17.74	Č
		6.334 50.832 65.753 1.00 19.48	C
		5.409 48.581 64.329 1.00 19.09	c
ATOM		6.384 47.876 64.572 1.00 19.31	Ö
ATOM		4.181 48.239 64.704 1.00 19.09	N
ATOM		3.950 46.965 65.412 1.00 19.26	C
		2.492 46.861 65.878 1.00 19.30	Č
ATOM		2.216 47.712 67.152 1.00 20.22	Č
		3.090 48.471 67.620 1.00 21.96	C
		1.007 47.591 67.700 1.00 18.64	N
		4.444 45.666 64.696 1.00 19.13	C
ATOM		5.173 44.873 65.296 1.00 19.31	Ö
		4.075 45.437 63.440 1.00 18.65	N
	5947 CA PRO B 352		C
		4.065 44.552 61.266 1.00 18.43	Č
		2.818 45.308 61.446 1.00 18.44	C
ATOM		2.988 46.109 62.701 1.00 19.18	Č
ATOM		6.207 44.405 62.573 1.00 18.36	c
ATOM	5959 O PROB 352	6.810 43.341 62.449 1.00 17.33	Ö
ATOM	5960 N ILE B 353	6.825 45.592 62.589 1.00 18.97	N
ATOM		8.288 45.681 62.464 1.00 19.14	C
ATOM		8.774 47.129 62.282 1.00 19.20	Č
ATOM	5966 CG1 ILE B 353	8.540 47.569 60.853 1.00 19.84	C
ATOM	5969 CD1 ILE B 353	8.603 49.046 60.689 1.00 20.86	C
ATOM		10.270 47.257 62.522 1.00 19.89	C
ATOM		8.914 45.071 63.688 1.00 19.17	С
ATOM	5978 O ILE B 353	9.826 44.235 63.586 1.00 19.15	Ö
ATOM		8.403 45.469 64.848 1.00 19.09	N
	22.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	0,100 101101 11010 1100 17107	• •

ATOM	5981 CA PHE B 354	8.901 44.932 66.096 1.00 19.08	С
		8.569 45.857 67.270 1.00 18.93	Č
ATOM			Č
ATOM	5987 CD1 PHE B 354	9.290 48.079 66.355 1.00 20.06	Č
	5989 CE1 PHE B 354		C
	5991 CZ PHE B 354		c
		11.310 48.294 68.222 1.00 18.03	C
	5995 CD2 PHE B 354	10.477 47.194 68.215 1.00 19.43	Č
ATOM			С
ATOM	5998 O PHE B 354		0
ATOM	5999 N GLUB 355	7.319 43.044 65.896 1.00 19.55	N
ATOM	6001 CA GLU B 355	7.033 41.602 65.991 1.00 20.22	С
ATOM	6003 CB GLUB 355	5.584 41.249 65.739 1.00 20.39	С
ATOM	6006 CG GLU B 355	5.296 39.739 65.801 1.00 23.59	C
ATOM	6009 CD GLU B 355	5.522 39.066 67.171 1.00 27.11	C
ATOM	6010 OE1 GLU B 355	5.991 37.908 67.182 1.00 28.26	0
ATOM	6011 OE2 GLU B 355	5.219 39.653 68.243 1.00 28.91	0
ATOM	6012 C GLU B 355	7.942 40.799 65.060 1.00 19.88	C
ATOM	6013 O GLUB 355	8.464 39.773 65.459 1.00 20.45	0
ATOM	6014 N PHE B 356	8.166 41.274 63.848 1.00 19.33	N
		9.088 40.612 62.932 1.00 18.97	C
ATOM	6018 CB PHE B 356		C
ATOM	6021 CG PHE B 356		C
ATOM		9.882 39.551 60.088 1.00 18.72	C
ATOM	6024 CE1 PHE B 356	10.727 38.969 59.145 1.00 18.09	C
ATOM	6026 CZ PHE B 356	11.821 39.619 58.715 1.00 17.73	C
ATOM		12.097 40.874 59.215 1.00 20.41	С
ATOM		11.224 41.485 60.159 1.00 20.15	C
	6032 C PHE B 356	10.432 40.500 63.603 1.00 19.01	C
ATOM	6033 O PHE B 356	11.023 39.428 63.586 1.00 19.67	О
ATOM		10.923 41.593 64.200 1.00 18.61	N
ATOM		12.296 41.620 64.729 1.00 17.87	C
	6038 CB SER B 357	12.710 43.013 65.216 1.00 17.62	C
	6041 OG SER B 357	12.580 43.997 64.238 1.00 15.55	0
ATOM		12.396 40.664 65.895 1.00 18.01	C
	6044 O SER B 357	13.426 40.073 66.128 1.00 18.36	0
	6045 N ARG B 358	11.324 40.554 66.657 1.00 18.41	N
	6047 CA ARG B 358	11.293 39.684 67.808 1.00 18.89	C
	6049 CB ARG B 358	10.030 39.931 68.629 1.00 19.21	C
	6052 CG ARG B 358	10.115 41.017 69.672 1.00 20.39	C
	6055 CD ARG B 358	8.930 41.002 70.639 1.00 23.01	C
	6058 NE ARG B 358	7.661 41.293 69.956 1.00 24.62	N
	6060 CZ ARG B 358	7.142 42.516 69.770 1.00 25.65	C
	6061 NH1 ARG B 358	7.758 43.611 70.218 1.00 26.41	N
	6064 NH2 ARG B 358	5.992 42.659 69.119 1.00 25.90	N
	6067 C ARG B 358	11.299 38.249 67.294 1.00 19.27	C
	6068 O ARG B 358	12.017 37.381 67.822 1.00 19.25	0
ATOM	6069 N ALA B 359	10.488 38.008 66.257 1.00 19.38	N

ATOM 6071 CA ALA B 359 10.382 36.691 65.644 1.00 19.20 C ATOM 6073 CB ALA B 359 9.350 36.675 64.528 1.00 19.07 \mathbf{C} ATOM 6077 C ALA B 359 11.739 36.306 65.125 1.00 19.31 C ATOM 6078 O ALA B 359 12.208 35.214 65.409 1.00 19.67 0 ATOM 6079 N MET B 360 12.387 37.216 64.405 1.00 19.46 N ATOM 6081 CA MET B 360 13.712 36.946 63.853 1.00 20.16 ATOM 6083 CB MET B 360 14.200 38.114 62.979 1.00 20.19 C ATOM 6086 CG MET B 360 C 13.500 38.234 61.638 1.00 20.34 ATOM 6089 SD MET B 360 13.839 36.869 60.559 1.00 20.37 S ATOM 6090 CE MET B 360 15.479 37.155 60.204 1.00 23.09 C ATOM 6094 C MET B 360 14.739 36.642 64.966 1.00 20.38 ATOM 6095 O MET B 360 15.699 35.880 64.761 1.00 20.33 0 ATOM 6096 N ARG B 361 14.547 37.234 66.137 1.00 20.55 N ATOM 6098 CA ARG B 361 15.459 36.982 67.218 1.00 20.88 \mathbf{C} ATOM 6100 CB ARG B 361 15.309 38.010 68.309 1.00 20.98 C ATOM 6103 CG ARG B 361 16.316 37.831 69.407 1.00 21.67 C ATOM 6106 CD ARG B 361 16.153 38.821 70.511 1.00 23.20 C ATOM 6109 NE ARG B 361 16.708 38.365 71.792 1.00 24.55 N ATOM 6111 CZ ARG B 361 16.083 37.582 72.684 1.00 24.23 C ATOM 6112 NH1 ARG B 361 14.855 37.098 72.477 1.00 22.76 N 16.720 37.283 73.805 1.00 25.68 ATOM 6115 NH2 ARG B 361 N ATOM 6118 C ARG B 361 15.236 35.595 67.782 1.00 21.45 C ATOM 6119 O ARG B 361 16.172 34.957 68.220 1.00 21.22 0 ATOM 6120 N ARG B 362 14.004 35.111 67.780 1.00 22.13 N ATOM 6122 CA ARG B 362 13.752 33.788 68.325 1.00 22.86 \mathbf{C} ATOM 6124 CB ARG B 362 12.261 33.511 68.464 1.00 23.28 C ATOM 6127 CG ARG B 362 11.541 34.326 69.483 1.00 24.48 C ATOM 6130 CD ARG B 362 10.037 34.187 69.364 1.00 26.98 C ATOM 6133 NE ARG B 362 9.338 35.435 69.665 1.00 28.73 N ATOM 6135 CZ ARG B 362 8.333 35.946 68.954 1.00 30.48 C ATOM 6136 NH1 ARG B 362 7.875 35.341 67.860 1.00 29.56 N ATOM 6139 NH2 ARG B 362 7.780 37.091 69.350 1.00 32.91 N ATOM 6142 C ARG B 362 14.368 32.709 67.446 1.00 22.90 C ATOM 6143 O ARG B 362 14.557 31.585 67.890 1.00 23.17 0 ATOM 6144 N LEUB 363 14.656 33.032 66.195 1.00 23.09 N ATOM 6146 CA LEUB 363 15.352 32.090 65.320 1.00 23.10 \mathbf{C} ATOM 6148 CB LEUB 363 15.051 32.383 63.856 1.00 23.37 C ATOM 6151 CG LEUB 363 13.746 31.828 63.325 1.00 24.43 C ATOM 6153 CD1 LEU B 363 13.567 32.406 61.943 1.00 25.89 \mathbf{C} ATOM 6157 CD2 LEU B 363 13.789 30.290 63.294 1.00 25.28 C ATOM 6161 C LEUB 363 16.855 32.080 65.512 1.00 22.55 C ATOM 6162 O LEUB 363 17.484 31.128 65.129 1.00 22.71 0 ATOM 6163 N GLY B 364 17.424 33.156 66.043 1.00 22.17 N ATOM 6165 CA GLY B 364 18.838 33.217 66.362 1.00 21.90 C ATOM 6168 C GLY B 364 19.769 32.980 65.197 1.00 21.74 C ATOM 6169 O GLY B 364 20.661 32.123 65.278 1.00 20.98 0 ATOM 6170 N LEUB 365 19.561 33.742 64.123 1.00 21.69 N ATOM 6172 CA LEUB 365 20.424 33.680 62.937 1.00 22.03 C

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ATOM 6174 CB LEUB 365 19.770 34.385 61.742 1.00 22.39 C ATOM 6177 CG LEUB 365 18.297 34.184 61.338 1.00 23.57 C ATOM 6179 CD1 LEU B 365 18.132 34.588 59.929 1.00 24.90 C ATOM 6183 CD2 LEU B 365 17.853 32.769 61.452 1.00 26.03 C ATOM 6187 C LEUB 365 21.827 34.294 63.161 1.00 21.97 C ATOM 6188 O LEUB 365 21.973 35.301 63.864 1.00 21.63 0 ATOM 6189 N ASP B 366 22.852 33.669 62.571 1.00 21.97 N ATOM 6191 CA ASP B 366 24.214 34.227 62.545 1.00 21.76 C ATOM 6193 CB ASP B 366 25.300 33.132 62.729 1.00 21.83 ATOM 6196 CG ASP B 366 25.210 31.983 61.714 1.00 22.12 ATOM 6197 OD1 ASP B 366 24.858 32.219 60.531 1.00 23.46 O ATOM 6198 OD2 ASP B 366 25.492 30.794 62.008 1.00 20.18 0 ATOM 6199 C ASP B 366 24.399 35.040 61.259 1.00 21.52 ATOM 6200 O ASP B 366 23.458 35.232 60.531 1.00 21.62 0 ATOM 6201 N ASP B 367 25.600 35.530 60.991 1.00 21.93 N ATOM 6203 CA ASP B 367 25.869 36.363 59.809 1.00 21.96 C ATOM 6205 CB ASP B 367 27.304 36.897 59.841 1.00 22.50 C ATOM 6208 CG ASP B 367 27.530 37.937 60.923 1.00 24.91 ATOM 6209 OD1 ASP B 367 26.560 38.629 61.362 1.00 26.49 0 ATOM 6210 OD2 ASP B 367 28.683 38.108 61.382 1.00 28.92 0 ATOM 6211 C ASP B 367 25.714 35.640 58.496 1.00 20.99 ATOM 6212 O ASP B 367 25.215 36.193 57.525 1.00 21.18 0 ATOM 6213 N ALA B 368 26.218 34.423 58.459 1.00 19.97 N ATOM 6215 CA ALAB 368 26.045 33.556 57.318 1.00 19.75 C ATOM 6217 CB ALA B 368 26.727 32.212 57.606 1.00 19.33 C ATOM 6221 C ALA B 368 24.544 33.338 56.947 1.00 19.49 C ATOM 6222 O ALA B 368 24.174 33.331 55.779 1.00 19.63 0 ATOM 6223 N GLUB 369 23.692 33.136 57.942 1.00 19.20 ATOM 6225 CA GLU B 369 22.302 32.829 57.686 1.00 18.60 C ATOM 6227 CB GLU B 369 21.622 32.259 58.934 1.00 18.76 ATOM 6230 CG GLU B 369 22.020 30.797 59.128 1.00 19.93 C ATOM 6233 CD GLU B 369 21.526 30.131 60.415 1.00 22.09 C ATOM 6234 OE1 GLU B 369 21.206 28.912 60.342 1.00 22.95 0 ATOM 6235 OE2 GLU B 369 21.502 30.774 61.499 1.00 21.86 0 ATOM 6236 C GLU B 369 21.643 34.059 57.145 1.00 17.93 ATOM 6237 O GLUB 369 20.951 33.977 56.144 1.00 17.73 0 ATOM 6238 N TYR B 370 21.922 35.202 57.750 1.00 17.57 N ATOM 6240 CA TYR B 370 21.345 36.470 57.298 1.00 18.20 C ATOM 6242 CB TYR B 370 21.750 37.623 58.220 1.00 18.25 C ATOM 6245 CG TYR B 370 20.713 37.978 59.225 1.00 17.86 ATOM 6246 CD1 TYR B 370 20.874 37.641 60.557 1.00 20.22 C ATOM 6248 CE1 TYR B 370 19.902 37.958 61.496 1.00 21.95 C ATOM 6250 CZ TYR B 370 18.759 38.609 61.082 1.00 21.88 C ATOM 6251 OH TYR B 370 17.798 38.912 61.996 1.00 24.56 ATOM 6253 CE2 TYR B 370 18.592 38.960 59.766 1.00 20.01 \mathbf{C} ATOM 6255 CD2 TYR B 370 19.568 38.636 58.849 1.00 18.17 C ATOM 6257 C TYR B 370 21.783 36.826 55.894 1.00 18.62 C ATOM 6258 O TYR B 370 21.012 37.330 55.095 1.00 18.31 0

ATOM	6259	N ALA B 371	23.059 36.586 55.625 1.00 19.41	N
ATOM	6261	CA ALA B 371	23.651 36.869 54.332 1.00 19.77	С
ATOM	6263	CB ALA B 371	25.101 36.520 54.355 1.00 20.11	C
ATOM	6267	C ALA B 371	22.942 36.048 53.280 1.00 20.15	С
ATOM	6268	O ALA B 371	22.403 36.600 52.334 1.00 20.44	О
ATOM	6269	N LEU B 372	22.926 34.733 53.464 1.00 20.08	N
ATOM	6271	CA LEUB 372	22.245 33.855 52.542 1.00 20.52	С
ATOM	6273	CB LEU B 372	22.332 32.416 53.037 1.00 20.24	C
ATOM	6276	CG LEU B 372	23.674 31.705 52.814 1.00 20.48	C
ATOM	6278	CD1 LEU B 372	23.645 30.402 53.579 1.00 22.12	С
ATOM	6282	CD2 LEU B 372	23.996 31.406 51.368 1.00 19.23	С
ATOM	6286	C LEU B 372	20.771 34.266 52.285 1.00 21.35	C
ATOM	6287	O LEU B 372	20.262 34.155 51.152 1.00 21.29	О
ATOM	6288	N LEU B 373	20.091 34.757 53.322 1.00 21.78	N
ATOM	6290	CA LEU B 373	18.669 35.090 53.218 1.00 21.88	C
ATOM	6292	CB LEU B 373	18.099 35.318 54.605 1.00 22.34	C
ATOM	6295	CG LEU B 373	16.631 35.052 54.870 1.00 24.27	С
ATOM	6297	CD1 LEU B 373	16.240 33.634 54.489 1.00 25.08	C
ATOM	6301	CD2 LEU B 373	16.434 35.258 56.348 1.00 26.33	C
ATOM	6305	C LEU B 373	18.492 36.348 52.400 1.00 21.53	С
ATOM	6306	O LEU B 373	17.525 36.513 51.691 1.00 21.68	O
ATOM	6307	N ILE B 374	19.451 37.244 52.506 1.00 21.20	N
ATOM	6309	CA ILE B 374	19.438 38.454 51.717 1.00 21.25	C
ATOM	6311	CB ILE B 374	20.474 39.439 52.290 1.00 21.83	C
ATOM	6313	CG1 ILE B 374	19.942 40.033 53.609 1.00 22.17	C
ATOM	6316	CD1 ILE B 374	21.057 40.530 54.545 1.00 23.01	C
ATOM	6320	CG2 ILE B 374	20.798 40.532 51.287 1.00 22.04	C
ATOM	6324	C ILE B 374	19.701 38.147 50.244 1.00 20.32	C
ATOM	6325	O ILE B 374	19.026 38.676 49.384 1.00 20.43	O
ATOM	6326	N ALA B 375	20.668 37.287 49.962 1.00 19.75	N
ATOM	6328	CA ALA B 375	20.935 36.828 48.599 1.00 19.72	С
ATOM	6330	CB ALA B 375	22.103 35.907 48.605 1.00 19.65	C
ATOM	6334	C ALA B 375	19.717 36.114 47.975 1.00 20.06	C
ATOM	6335	O ALA B 375	19.323 36.387 46.843 1.00 19.99	О
ATOM	6336	N ILE B 376	19.106 35.208 48.731 1.00 20.10	N
ATOM	6338	CA ILE B 376	17.867 34.578 48.295 1.00 19.73	С
ATOM	6340	CB ILE B 376	17.372 33.606 49.367 1.00 19.55	С
ATOM	6342	CG1 ILE B 376	18.335 32.421 49.481 1.00 20.36	C
ATOM	6345	CD1 ILE B 376	18.102 31.493 50.697 1.00 20.84	C
ATOM	6349	CG2 ILE B 376	15.972 33.126 49.009 1.00 18.87	C
ATOM	6353	C ILE B 376	16.794 35.625 48.008 1.00 19.34	C
ATOM	6354	O ILE B 376	16.097 35.560 47.002 1.00 19.00	0
ATOM	6355	N ASN B 377	16.669 36.585 48.911 1.00 19.36	N
		CA ASN B 377	15.673 37.626 48.774 1.00 19.72	С
ATOM		CB ASN B 377	15.687 38.548 49.985 1.00 19.90	C
ATOM	6362	CG ASN B 377	14.531 39.515 49.975 1.00 20.18	C
ATOM			14.601 40.538 49.327 1.00 21.54	0
ATOM	6364	ND2 ASN B 377	13.454 39.185 50.682 1.00 19.64	N

ATOM	6367 C ASN B 377	15.876 38.451 47.501 1.00 19.83	С
ATOM	6368 O ASN B 377	14.899 38.825 46.841 1.00 19.63	Ο
ATOM	6369 N ILE B 378	17.133 38.721 47.138 1.00 19.53	N
ATOM	6371 CA ILE B 378	17.402 39.535 45.947 1.00 19.39	C
ATOM	6373 CB ILE B 378	18.892 39.895 45.864 1.00 19.13	C
ATOM	6375 CG1 ILE B 378	19.253 40.988 46.873 1.00 18.64	C
ATOM	6378 CD1 ILE B 378	20.756 41.087 47.216 1.00 18.30	С
ATOM	6382 CG2 ILE B 378	19.211 40.382 44.502 1.00 20.08	C
ATOM	6386 C ILE B 378	16.946 38.761 44.702 1.00 19.44	C
ATOM	6387 O ILE B 378	16.234 39.281 43.843 1.00 19.04	О
ATOM	6388 N PHE B 379	17.362 37.500 44.636 1.00 20.13	N
ATOM	6390 CA PHE B 379	17.057 36.605 43.510 1.00 20.55	C
ATOM	6392 CB PHE B 379	18.160 35.555 43.372 1.00 19.19	С
ATOM	6395 CG PHE B 379	19.480 36.135 43.009 1.00 18.93	C
		20.620 35.781 43.693 1.00 19.79	С
ATOM		21.850 36.338 43.339 1.00 19.77	C
ATOM			C
ATOM		20.803 37.598 41.595 1.00 16.98	С
	6404 CD2 PHE B 379		С
	6406 C PHE B 379		C
		15.442 34.813 43.424 1.00 21.76	Ο
ATOM	6408 N SER B 380	14.638 36.820 43.771 1.00 22.84	N
	6410 CA SER B 380		С
		12.444 37.291 44.720 1.00 23.56	C
	•	12.812 37.045 46.042 1.00 23.12	О
ATOM	6417 C SER B 380	12.754 36.575 42.363 1.00 24.73	C
ATOM	6418 O SER B 380	12.582 37.697 41.901 1.00 25.21	0
		12.464 35.478 41.684 1.00 26.26	N
		12.124 35.551 40.246 1.00 26.69	C
		12.230 34.178 39.572 1.00 26.50	C
	6427 C ALA B 381		C
		10.514 36.644 38.869 1.00 27.16	О
	6429 N ASP B 382		N
	6431 CA ASP B 382		С
	6433 CB ASP B 382		С
	6436 CG ASP B 382		С
	6437 OD1 ASP B 382	8.963 36.427 43.548 1.00 32.42	О
	6438 OD2 ASP B 382	6.874 36.168 43.958 1.00 35.98	О
	6439 C ASP B 382	8.214 38.092 41.223 1.00 26.15	С
	6440 O ASP B 382		O
	6441 N ARG B 383		N
	6443 CA ARG B 383	9.036 40.342 41.392 1.00 25.29	С
	6445 CB ARG B 383		C
	6448 CG ARG B 383		C
	6451 CD ARG B 383	10.514 40.697 44.041 1.00 23.33	C
	6454 NE ARG B 383	•	N
		11.225 40.635 46.406 1.00 20.26	C
ATOM	6457 NH1 ARG B 383	9.988 40.849 46.836 1.00 18.05	N

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			12.198 40.476 47.272 1.00 22.17	N
			8.349 40.918 40.181 1.00 24.76	C
		O ARG B 383		0
ATOM		N PRO B 384		N
ATOM			7.124 42.734 39.196 1.00 24.04	C
		CB PRO B 384		C
			6.155 43.540 41.218 1.00 24.47	C
ATOM			7.386 42.734 41.609 1.00 24.83	С
		C PRO B 384		C
		O PRO B 384	9.263 43.545 38.519 1.00 23.34	0
ATOM			7.769 43.018 36.902 1.00 23.00	N
ATOM			8.504 43.474 35.720 1.00 22.84	С
			8.692 45.002 35.670 1.00 23.07	С
			7.495 45.783 36.186 1.00 23.82	С
ATOM			7.558 46.358 37.253 1.00 27.50	О
ATOM		ND2 ASN B 385	6.425 45.831 35.424 1.00 24.98	N
		C ASN B 385	9.842 42.767 35.469 1.00 22.54	С
ATOM		O ASN B 385	10.709 43.305 34.761 1.00 22.77	О
ATOM			10.018 41.560 36.003 1.00 21.82	N
			11.217 40.796 35.662 1.00 21.30	C
ATOM	6497	CB VAL B 386	11.578 39.773 36.744 1.00 21.47	C
ATOM	6499	CG1 VAL B 386	12.626 38.766 36.233 1.00 20.95	C
ATOM	6503	CG2 VAL B 386	12.092 40.509 37.997 1.00 21.14	C
ATOM	6507	C VAL B 386	10.979 40.156 34.287 1.00 20.86	C
ATOM	6508	O VAL B 386	9.952 39.549 34.038 1.00 21.19	O
ATOM	6509	N GLN B 387	11.918 40.338 33.381 1.00 20.10	N
ATOM	6511	CA GLN B 387	11.739 39.932 32.010 1.00 19.47	C
ATOM	6513	CB GLN B 387	12.281 41.018 31.111 1.00 19.47	С
ATOM	6516	CG GLN B 387	11.517 42.299 31.223 1.00 19.97	С
ATOM	6519	CD GLN B 387	12.162 43.357 30.380 1.00 21.09	С
			12.343 43.165 29.181 1.00 22.44	О
ATOM	6521	NE2 GLN B 387	12.537 44.467 30.995 1.00 22.01	N
ATOM	6524	C GLN B 387	12.436 38.613 31.725 1.00 18.93	С
ATOM	6525	O GLN B 387	12.212 38.015 30.699 1.00 19.67	O
ATOM	6526	N GLU B 388	13.279 38.165 32.633 1.00 18.08	N
ATOM	6528	CA GLU B 388	13.932 36.895 32.503 1.00 17.71	C
ATOM	6530	CB GLU B 388	15.354 37.131 32.026 1.00 17.81	C
ATOM	6533	CG GLU B 388	15.468 37.453 30.550 1.00 17.82	С
ATOM	6536	CD GLU B 388	16.918 37.440 30.101 1.00 18.15	C
ATOM	6537	OE1 GLU B 388	17.571 38.493 30.302 1.00 17.11	O
ATOM	6538	OE2 GLU B 388	17.405 36.380 29.585 1.00 15.67	Ο
ATOM	6539	C GLU B 388	13.931 36.230 33.876 1.00 17.82	C
ATOM	6540	O GLU B 388	14.963 36.087 34.494 1.00 17.76	0
ATOM	6541	N PRO B 389	12.768 35.841 34.374 1.00 18.13	N
ATOM	6542	CA PROB 389	12.679 35.301 35.720 1.00 18.15	С
ATOM	6544	CB PRO B 389	11.201 35.054 35.919 1.00 17.76	C
ATOM	6547	CG PRO B 389	10.546 35.280 34.664 1.00 17.88	С
ATOM	6550	CD PRO B 389	11.463 35.882 33.704 1.00 18.53	C

ATOM	6553 C PRO B 389	13.468 34.024 35.840 1.00 19.05	С
ATOM	6554 O PRO B 389	14.147 33.863 36.848 1.00 19.55	0
ATOM	6555 N GLY B 390	13.399 33.155 34.835 1.00 19.58	N
ATOM	6557 CA GLY B 390	14.282 32.013 34.722 1.00 19.86	C
ATOM	6560 C GLY B 390	15.729 32.242 35.110 1.00 20.83	C
ATOM	6561 O GLY B 390	16.320 31.440 35.846 1.00 22.05	0
ATOM	6562 N ARG B 391	16.339 33.316 34.636 1.00 21.12	N
ATOM	6564 CA ARG B 391	17.744 33.569 34.983 1.00 21.55	С
ATOM	6566 CB ARG B 391	18.313 34.704 34.121 1.00 21.64	С
ATOM	6569 CG ARG B 391	18.149 34.521 32.611 1.00 22.19	С
ATOM	6572 CD ARG B 391	19.056 33.468 32.031 1.00 22.52	C
ATOM	6575 NE ARG B 391	20.455 33.858 32.107 1.00 23.38	N
ATOM	6577 CZ ARG B 391	21.458 33.104 31.677 1.00 23.56	C
ATOM	6578 NH1 ARG B 391	21.215 31.909 31.160 1.00 24.93	N
ATOM	6581 NH2 ARG B 391	22.705 33.537 31.757 1.00 22.82	N
ATOM	6584 C ARG B 391	17.912 33.933 36.469 1.00 22.06	С
ATOM	6585 O ARG B 391	18.965 33.784 37.055 1.00 22.01	0
ATOM	6586 N VAL B 392	16.865 34.470 37.060 1.00 23.06	N
ATOM	6588 CA VAL B 392	16.912 34.882 38.449 1.00 23.96	С
ATOM	6590 CB VAL B 392	15.765 35.907 38.779 1.00 23.94	C
ATOM	6592 CG1 VAL B 392	15.793 36.298 40.243 1.00 24.94	C
ATOM	6596 CG2 VAL B 392	15.894 37.149 37.933 1.00 22.66	C
ATOM	6600 C VAL B 392	16.838 33.614 39.309 1.00 24.69	C
ATOM	6601 O VAL B 392	17.721 33.368 40.123 1.00 23.97	Ο
ATOM	6602 N GLU B 393	15.803 32.798 39.092 1.00 25.88	N
ATOM	6604 CA GLU B 393	15.709 31.469 39.730 1.00 27.13	C
ATOM	6606 CB GLU B 393	14.635 30.644 39.068 1.00 27.48	C
ATOM	6609 CG GLU B 393	14.022 29.585 39.964 1.00 31.61	С
ATOM	6612 CD GLUB 393	12.669 29.130 39.408 1.00 38.64	C
ATOM	6613 OE1 GLU B 393	11.641 29.489 40.026 1.00 42.36	О
	6614 OE2 GLU B 393		O
	6615 C GLU B 393		C
ATOM	6616 O GLU B 393	17.300 29.955 40.715 1.00 27.38	О
	6617 N ALA B 394	17.769 30.686 38.652 1.00 26.35	N
	6619 CA ALA B 394	18.997 29.909 38.526 1.00 25.69	С
	6621 CB ALA B 394	19.486 29.946 37.113 1.00 25.51	C
	6625 C ALA B 394	20.073 30.455 39.462 1.00 25.37	С
	6626 O ALA B 394	20.877 29.703 40.026 1.00 25.18	O
	6627 N LEUB 395	20.112 31.768 39.607 1.00 24.61	N
	6629 CA LEU B 395	20.986 32.361 40.601 1.00 24.14	C
	6631 CB LEU B 395	21.169 33.848 40.305 1.00 23.88	С
	6634 CG LEUB 395	21.908 34.145 39.009 1.00 24.05	C .
	6636 CD1 LEU B 395	21.928 35.653 38.796 1.00 25.55	C
	6640 CD2 LEU B 395	23.326 33.613 39.026 1.00 23.40	С
	6644 C LEUB 395	20.493 32.130 42.061 1.00 23.52	C
	6645 O LEUB 395	21.317 32.002 42.968 1.00 23.09	0
	6646 N GLN B 396	19.180 32.047 42.283 1.00 22.77	N
ATOM	6648 CA GLN B 396	18.659 31.911 43.649 1.00 22.84	С

ATOM	6650 CB GLN B 396	17.137 32.134 43.685 1.00 22.46	С
ATOM	6653 CG GLN B 396	16.597 32.351 45.121 1.00 21.86	С
ATOM	6656 CD GLN B 396	15.093 32.230 45.224 1.00 22.07	С
ATOM	6657 OE1 GLN B 396	14.539 31.210 44.849 1.00 25.24	0
ATOM	6658 NE2 GLN B 396	14.430 33.254 45.748 1.00 19.98	N
ATOM	6661 C GLN B 396	18.961 30.539 44.271 1.00 23.28	C
ATOM	6662 O GLN B 396	19.360 30.409 45.433 1.00 22.64	O
ATOM	6663 N GLN B 397	18.752 29.511 43.465 1.00 24.24	N
ATOM	6665 CA GLN B 397	18.766 28.124 43.918 1.00 24.67	С
ATOM	6667 CB GLN B 397	18.568 27.206 42.715 1.00 25.50	С
ATOM	6670 CG GLN B 397	18.448 25.747 43.063 1.00 28.77	C
ATOM	6673 CD GLN B 397	17.262 25.164 42.382 1.00 33.24	C
ATOM	6674 OE1 GLN B 397	17.224 25.139 41.143 1.00 36.36	O
ATOM	6675 NE2 GLN B 397	16.238 24.763 43.166 1.00 36.14	N
ATOM	6678 C GLN B 397	20.023 27.708 44.690 1.00 23.47	C
ATOM	6679 O GLN B 397	19.885 27.115 45.740 1.00 23.28	Ο
ATOM	6680 N PRO B 398	21.232 27.960 44.178 1.00 22.21	N
ATOM	6681 CA PRO B 398	22.429 27.606 44.954 1.00 22.07	С
ATOM	6683 CB PRO B 398	23.595 28.111 44.067 1.00 21.81	C
ATOM	6686 CG PRO B 398	23.038 28.253 42.719 1.00 20.81	C
ATOM	6689 CD PRO B 398	21.588 28.535 42.866 1.00 21.52	C
ATOM	6692 C PRO B 398	22.450 28.206 46.397 1.00 21.66	C
ATOM	6693 O PROB 398	22.887 27.547 47.341 1.00 21.24	О
ATOM	6694 N TYR B 399	21.944 29.421 46.554 1.00 21.10	N
ATOM	6696 CA TYR B 399	21.896 30.073 47.868 1.00 20.92	C
ATOM	6698 CB TYR B 399	21.568 31.574 47.702 1.00 21.19	С
ATOM	6701 CG TYR B 399		C
ATOM	6702 CD1 TYR B 399		C
ATOM	6704 CE1 TYR B 399		C
ATOM	6706 CZ TYR B 399		C
ATOM	6707 OH TYR B 399		О
	6709 CE2 TYR B 399		C
ATOM	6711 CD2 TYR B 399		С
	6713 C TYR B 399	20.898 29.419 48.815 1.00 20.41	C
	6714 O TYR B 399	21.106 29.374 50.016 1.00 20.38	О
	6715 N VAL B 400	19.798 28.940 48.258 1.00 20.03	N
	6717 CA VAL B 400	18.800 28.185 49.011 1.00 19.24	C
ATOM		17.455 28.000 48.185 1.00 18.97	C
	6721 CG1 VAL B 400		C
ATOM			С
ATOM	6729 C VAL B 400	19.392 26.843 49.403 1.00 19.00	C
	6730 O VAL B 400	19.239 26.442 50.526 1.00 19.25	0
	6731 N GLUB 401	20.066 26.165 48.482 1.00 18.97	N
ATOM		20.715 24.902 48.779 1.00 19.97	C
ATOM	6735 CB GLUB 401	21.390 24.353 47.523 1.00 20.59	C
	6738 CG GLU B 401	20.569 23.320 46.786 1.00 25.37	C
	6741 CD GLUB 401	20.983 23.073 45.329 1.00 32.52	C
ATOM	6742 OE1 GLU B 401	20.167 22.424 44.643 1.00 37.24	0

ATOM	6743 OE2 GLU B 401	22.083 23.500 44.846 1.00 37.72	0
ATOM	6744 C GLU B 401	21.771 25.081 49.890 1.00 19.60	С
ATOM	6745 O GLU B 401	21.978 24.222 50.745 1.00 18.58	O
ATOM	6746 N ALA B 402	22.438 26.227 49.833 1.00 19.35	N
ATOM	6748 CA ALA B 402	23.497 26.565 50.741 1.00 18.74	C
ATOM	6750 CB ALA B 402	24.162 27.859 50.273 1.00 19.13	Ċ
ATOM	6754 C ALA B 402	22.940 26.729 52.143 1.00 18.23	С
ATOM	6755 O ALA B 402	23.481 26.159 53.102 1.00 17.98	Ō
ATOM	6756 N LEUB 403	21.877 27.522 52.259 1.00 17.57	N
ATOM		21.169 27.688 53.537 1.00 17.83	С
ATOM	6760 CB LEU B 403	20.047 28.720 53.394 1.00 17.84	С
ATOM	6763 CG LEU B 403	19.304 29.202 54.639 1.00 16.31	C
ATOM	6765 CD1 LEU B 403		C
ATOM	6769 CD2 LEU B 403	18.281 30.234 54.261 1.00 15.33	C
ATOM	6773 C LEU B 403	20.608 26.361 54.101 1.00 18.18	C
ATOM	6774 O LEU B 403		Ō
ATOM	6775 N LEU B 404	19.958 25.561 53.253 1.00 19.14	N
ATOM	6777 CA LEU B 404		С
ATOM	6779 CB LEU B 404	18.981 23.431 52.490 1.00 19.91	C
ATOM		18.399 22.043 52.790 1.00 21.43	C
ATOM	6784 CD1 LEU B 404		С
ATOM	6788 CD2 LEU B 404	17.674 21.505 51.553 1.00 21.66	С
ATOM	6792 C LEU B 404	20.645 23.512 54.360 1.00 19.98	С
ATOM	6793 O LEU B 404	20.527 23.151 55.518 1.00 20.33	0
ATOM	6794 N SER B 405	21.765 23.368 53.666 1.00 20.53	N
ATOM	6796 CA SER B 405	22.908 22.589 54.138 1.00 21.05	С
ATOM	6798 CB SER B 405	23.900 22.377 52.998 1.00 21.36	Ċ
ATOM	6801 OG SER B 405	23.235 21.895 51.833 1.00 23.07	0
ATOM		23.608 23.237 55.335 1.00 21.21	C
ATOM	6804 O SER B 405	24.063 22.536 56.255 1.00 20.72	Ō
ATOM	6805 N TYR B 406	23.660 24.572 55.338 1.00 21.40	N
ATOM	6807 CA TYR B 406	24.165 25.309 56.493 1.00 21.50	C
ATOM	6809 CB TYR B 406	24.222 26.811 56.211 1.00 21.34	С
ATOM		24.870 27.554 57.345 1.00 21.01	Ċ
	6813 CD1 TYR B 406	26.241 27.819 57.332 1.00 20.35	С
	6815 CE1 TYR B 406	26.859 28.471 58.379 1.00 19.54	C
	6817 CZ TYR B 406	26.130 28.840 59.484 1.00 20.58	C
ATOM	6818 OH TYR B 406	26.751 29.480 60.525 1.00 17.71	0
ATOM		24.771 28.572 59.543 1.00 21.80	Č
	6822 CD2 TYR B 406	24.141 27.937 58.456 1.00 21.03	C
ATOM		23.358 25.038 57.793 1.00 21.99	C
ATOM		23.952 24.666 58.803 1.00 22.50	Ö
ATOM		22.033 25.222 57.753 1.00 22.60	N
	6828 CA THR B 407	21.106 24.979 58.893 1.00 23.33	C
ATOM		19.612 25.355 58.532 1.00 23.21	Č
	6832 OG1 THR B 407	19.223 24.720 57.311 1.00 21.25	Ō
	6834 CG2 THR B 407	19.423 26.847 58.264 1.00 22.50	Č
	6838 C THR B 407	21.088 23.534 59.395 1.00 24.32	C
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ATOM 6839 O THR B 407 20.968 23.288 60.576 1.00 23.72 0 ATOM 6840 N ARG B 408 21.135 22.598 58.464 1.00 25.82 Ν ATOM 6842 CA ARG B 408 21.304 21.195 58.769 1.00 27.43 C ATOM 6844 CB ARG B 408 21.590 20.438 57.472 1.00 28.12 C ATOM 6847 CG ARG B 408 20.474 19.593 56.985 1.00 31.35 C ATOM 6850 CD ARG B 408 20.854 18.649 55.855 1.00 36.14 C ATOM 6853 NE ARG B 408 19.859 17.586 55.832 1.00 40.97 N ATOM 6855 CZ ARG B 408 18.659 17.664 55.248 1.00 44.02 C ATOM 6856 NH1 ARG B 408 18.292 18.752 54.556 1.00 43.40 N ATOM 6859 NH2 ARG B 408 17.831 16.616 55.341 1.00 45.66 N ATOM 6862 C ARG B 408 22.499 20.970 59.680 1.00 27.90 C ATOM 6863 O ARG B 408 22.448 20.213 60.656 1.00 27.33 0 ATOM 6864 N ILE B 409 23.600 21.602 59.303 1.00 28.65 N ATOM 6866 CA ILE B 409 24.874 21.315 59.925 1.00 29.43 \mathbf{C} ATOM 6868 CB ILE B 409 26.031 21.700 58.981 1.00 29.63 C ATOM 6870 CG1 ILE B 409 26.238 20.585 57.942 1.00 30.42 C ATOM 6873 CD1 ILE B 409 27.234 20.919 56.829 1.00 31.02 C ATOM 6877 CG2 ILE B 409 27.305 21.931 59.766 1.00 29.94 C ATOM 6881 C ILE B 409 24.974 21.995 61.286 1.00 29.71 C ATOM 6882 O ILE B 409 25.365 21.354 62.257 1.00 29.24 0 ATOM 6883 N LYS B 410 24.610 23.279 61.339 1.00 30.37 N ATOM 6885 CA LYS B 410 24.637 24.068 62.575 1.00 30.83 C ATOM 6887 CB LYS B 410 24.243 25.526 62.291 1.00 31.05 ATOM 6890 CG LYS B 410 24.126 26.442 63.533 1.00 31.09 \mathbf{C} ATOM 6893 CD LYS B 410 23.712 27.862 63.142 1.00 31.05 C ATOM 6896 CE LYS B 410 23.132 28.662 64.308 1.00 30.78 C ATOM 6899 NZ LYS B 410 23.280 30.140 64.067 1.00 30.57 N ATOM 6903 C LYS B 410 23.699 23.487 63.624 1.00 31.13 C ATOM 6904 O LYS B 410 24.025 23.455 64.812 1.00 31.02 0 ATOM 6905 N ARG B 411 22.530 23.037 63.175 1.00 31.60 ATOM 6907 CA ARG B 411 21.484 22.548 64.071 1.00 32.04 C ATOM 6909 CB ARG B 411 20.398 23.626 64.262 1.00 32.46 C ATOM 6912 CG ARG B 411 20.909 24.977 64.766 1.00 35.17 C ATOM 6915 CD ARG B 411 21.177 25.100 66.289 1.00 39.41 \mathbf{C} ATOM 6918 NE ARG B 411 20.672 26.400 66.733 1.00 44.08 ATOM 6920 CZ ARG B 411 19.422 26.642 67.180 1.00 47.09 C ATOM 6921 NH1 ARG B 411 18.531 25.648 67.319 1.00 47.14 N ATOM 6924 NH2 ARG B 411 19.065 27.896 67.511 1.00 47.17 N ATOM 6927 C ARG B 411 20.855 21.246 63.556 1.00 31.31 C ATOM 6928 O ARG B 411 19.684 21.237 63.219 1.00 30.81 0 ATOM 6929 N PRO B 412 21.608 20.143 63.547 1.00 31.11 N ATOM 6930 CA PRO B 412 21.108 18.848 63.040 1.00 31.04 C ATOM 6932 CB PRO B 412 22.198 17.853 63.471 1.00 31.06 C ATOM 6935 CG PRO B 412 23.020 18.585 64.489 1.00 31.09 C ATOM 6938 CD PRO B 412 22.979 20.022 64.073 1.00 31.04 C ATOM 6941 C PRO B 412 19.764 18.424 63.622 1.00 30.98 C ATOM 6942 O PRO B 412 18.990 17.774 62.924 1.00 30.55 0 ATOM 6943 N GLN B 413 19.487 18.838 64.857 1.00 31.37 N

ATOM	6945	CA GLN B 413	18.318 18.385 65.608 1.00 31.76	С
ATOM	6947	CB GLN B 413	18.699 18.182 67.085 1.00 31.90	C
ATOM	6950	CG GLN B 413	19.976 17.345 67.302 1.00 32.92	С
ATOM	6953	CD GLN B 413	19.728 15.837 67.190 1.00 34.63	С
ATOM	6954	OE1 GLN B 413	19.739 15.251 66.089 1.00 33.84	Ο
ATOM	6955	NE2 GLN B 413	19.501 15.205 68.339 1.00 36.01	N
ATOM	6958	C GLN B 413	17.098 19.310 65.515 1.00 31.52	C
ATOM	6959	O GLN B 413	16.098 19.054 66.177 1.00 31.68	O
ATOM	6960	N ASP B 414	17.171 20.364 64.706 1.00 31.28	N
ATOM	6962	CA ASP B 414	16.031 21.264 64.510 1.00 31.37	С
ATOM	6964	CB ASP B 414	16.344 22.671 65.012 1.00 31.36	С
ATOM	6967	CG ASP B 414	15.105 23.531 65.122 1.00 33.05	С
ATOM	6968	OD1 ASP B 414	14.044 23.162 64.562 1.00 35.59	O
ATOM	6969	OD2 ASP B 414	15.095 24.602 65.757 1.00 35.48	O
ATOM	6970	C ASP B 414	15.601 21.326 63.049 1.00 31.09	С
ATOM	6971	O ASP B 414	15.951 22.256 62.313 1.00 31.09	Ο
ATOM	6972	N GLN B 415	14.804 20.342 62.651 1.00 30.85	N
ATOM	6974	CA GLN B 415	14.387 20.190 61.256 1.00 30.59	С
ATOM	6976	CB GLN B 415	13.764 18.790 61.032 1.00 31.09	С
ATOM	6979	CG GLN B 415	14.780 17.634 60.807 1.00 33.66	С
ATOM	6982	CD GLN B 415	15.899 17.986 59.796 1.00 38.47	C
ATOM	6983	OE1 GLN B 415	17.104 17.943 60.134 1.00 41.48	О
ATOM	6984	NE2 GLN B 415	15.504 18.353 58.566 1.00 40.87	N
ATOM	6987	C GLN B 415	13.440 21.313 60.775 1.00 29.62	C
ATOM	6988	O GLN B 415	13.273 21.495 59.551 1.00 29.23	O
ATOM	6989	N LEU B 416	12.854 22.063 61.724 1.00 28.51	N
ATOM	6991	CA LEUB 416	11.926 23.172 61.412 1.00 27.87	C
ATOM	6993	CB LEU B 416	10.832 23.271 62.475 1.00 27.63	C
ATOM	6996	CG LEUB 416	9.753 22.197 62.482 1.00 27.17	C
ATOM	6998	CD1 LEU B 416	8.690 22.614 63.488 1.00 26.60	C
ATOM	7002	CD2 LEU B 416	9.154 21.951 61.090 1.00 26.52	C
ATOM	7006	C LEU B 416	12.557 24.560 61.301 1.00 27.40	C
ATOM	7007	O LEU B 416	11.872 25.525 60.974 1.00 27.02	O
ATOM	7008	N ARG B 417	13.847 24.678 61.574 1.00 27.00	N
ATOM	7010	CA ARG B 417	14.467 26.003 61.585 1.00 26.48	C
ATOM	7012	CB ARG B 417	15.822 25.986 62.321 1.00 26.93	C
ATOM	7015	CG ARG B 417	16.894 26.860 61.699 1.00 27.72	C
ATOM	7018	CD ARG B 417	18.315 26.647 62.233 1.00 28.01	C
		NE ARG B 417	18.987 27.942 62.348 1.00 26.38	N
ATOM	7023	CZ ARG B 417	18.760 28.798 63.305 1.00 23.60	С
ATOM	7024	NH1 ARG B 417	17.913 28.490 64.272 1.00 23.64	N
		NH2 ARG B 417	19.387 29.956 63.287 1.00 23.29	N
ATOM	7030	C ARG B 417	14.591 26.515 60.159 1.00 25.26	C
ATOM		O ARG B 417	14.311 27.673 59.905 1.00 25.17	O
		N PHE B 418	14.991 25.657 59.230 1.00 23.86	N
ATOM	7034	CA PHE B 418	15.044 26.080 57.839 1.00 23.32	С
			15.593 24.980 56.956 1.00 23.41	C
ATOM	7039	CG PHE B 418	15.727 25.371 55.529 1.00 24.28	C

ATOM	7040 CD1 PHE B 418	16.458 26.480 55.180 1.00 25.62	С
ATOM		16.607 26.847 53.871 1.00 28.16	C
ATOM	7044 CZ PHE B 418	16.022 26.090 52.868 1.00 29.91	Č
ATOM		15.286 24.965 53.207 1.00 28.48	C
ATOM		15.137 24.618 54.538 1.00 26.82	Č
ATOM	7050 C PHE B 418	13.697 26.561 57.282 1.00 23.02	C
ATOM		13.657 27.627 56.697 1.00 22.33	0
ATOM		12.612 25.783 57.429 1.00 22.91	N
ATOM		11.284 26.233 57.016 1.00 22.93	С
ATOM	7055 CB PRO B 419	10.349 25.107 57.508 1.00 22.95	С
ATOM	7058 CG PRO B 419	11.155 23.916 57.474 1.00 22.86	C
ATOM	7061 CD PRO B 419	12.530 24.400 57.931 1.00 23.56	C
ATOM		10.900 27.544 57.635 1.00 23.02	C
ATOM	7065 O PROB 419	10.437 28.399 56.875 1.00 22.94	0
ATOM	7066 N ARG B 420	11.114 27.717 58.942 1.00 23.41	N
ATOM	7068 CA ARG B 420	10.786 28.985 59.603 1.00 24.16	C
ATOM	7070 CB ARG B 420	11.108 28.972 61.081 1.00 24.28	C
ATOM	7073 CG ARG B 420	10.080 28.246 61.896 1.00 26.85	C
ATOM	7076 CD ARG B 420	10.218 28.401 63.384 1.00 30.77	C
ATOM	7079 NE ARG B 420	9.654 27.233 64.062 1.00 34.79	N
ATOM	7081 CZ ARG B 420	10.346 26.168 64.516 1.00 38.50	C
ATOM	7082 NH1 ARG B 420	11.681 26.086 64.397 1.00 39.26	N
ATOM	7085 NH2 ARG B 420	9.682 25.163 65.106 1.00 39.37	N
ATOM	7088 C ARG B 420	11.537 30.103 58.952 1.00 24.82	C
ATOM	7089 O ARG B 420	10.989 31.189 58.807 1.00 26.27	О
ATOM	7090 N MET B 421	12.776 29.845 58.530 1.00 24.91	N
ATOM	7092 CA MET B 421	13.553 30.868 57.843 1.00 25.26	С
ATOM	7094 CB MET B 421	14.970 30.397 57.577 1.00 25.40	C
ATOM	7097 CG MET B 421	15.826 30.434 58.849 1.00 27.21	C
ATOM	7100 SD MET B 421	17.544 30.165 58.566 1.00 27.35	S
ATOM	7101 CE MET B 421	17.757 31.547 57.546 1.00 30.33	C
ATOM	7105 C MET B 421	12.898 31.328 56.559 1.00 25.31	C
ATOM	7106 O MET B 421	12.606 32.520 56.412 1.00 24.94	O
ATOM	7107 N LEUB 422	12.655 30.387 55.642 1.00 25.81	N
ATOM	7109 CA LEU B 422	11.937 30.683 54.389 1.00 26.03	C
		11.675 29.424 53.544 1.00 25.89	C
	7114 CG LEU B 422		С
		12.349 27.425 52.241 1.00 28.42	C
		13.830 29.394 52.258 1.00 27.83	C
	7124 C LEU B 422	10.601 31.383 54.677 1.00 25.93	C
	7125 O LEUB 422	10.209 32.268 53.919 1.00 26.08	0
	7126 N MET B 423	9.915 31.017 55.766 1.00 25.24	N
		8.633 31.637 56.062 1.00 25.20	C
	7130 CB MET B 423	7.953 30.976 57.263 1.00 26.12	C
	7133 CG MET B 423	7.525 29.546 57.077 1.00 29.14	С
	7136 SD MET B 423	6.110 29.354 56.027 1.00 33.88	S
		5.398 27.865 56.718 1.00 31.87	C
ATOM	7141 C MET B 423	8.812 33.130 56.364 1.00 24.01	C

ATOM	7142 O MET B 423	7.873 33.891 56.259 1.00 24.04	0
ATOM	7143 N LYS B 424	9.993 33.557 56.780 1.00 22.48	N
ATOM	7145 CA LYS B 424	10.208 34.982 56.972 1.00 21.56	С
ATOM	7147 CB LYS B 424	11.478 35.290 57.792 1.00 21.39	С
ATOM	7150 CG LYS B 424	11.493 34.587 59.158 1.00 22.03	C
ATOM	7153 CD LYS B 424	10.557 35.305 60.148 1.00 25.08	C
ATOM	7156 CE LYS B 424	10.012 34.408 61.295 1.00 25.53	C
ATOM	7159 NZ LYS B 424	9.429 33.142 60.779 1.00 26.17	N
ATOM	7163 C LYS B 424	10.198 35.707 55.635 1.00 20.62	C
ATOM	7164 O LYS B 424	9.785 36.856 55.601 1.00 20.46	Ο
ATOM	7165 N LEUB 425	10.606 35.069 54.533 1.00 19.60	N
ATOM	7167 CA LEU B 425	10.422 35.708 53.223 1.00 19.55	C
ATOM	7169 CB LEU B 425	11.035 34.913 52.090 1.00 19.54	С
ATOM	7172 CG LEU B 425	12.505 34.601 52.232 1.00 21.54	C
ATOM	7174 CD1 LEU B 425	12.869 33.566 51.211 1.00 23.40	C
ATOM	7178 CD2 LEU B 425	13:352 35.834 52.060 1.00 22.49	C
ATOM	7182 C LEU B 425	8.938 35.944 52.908 1.00 19.31	C
ATOM	7183 O LEUB 425	8.581 36.844 52.167 1.00 19.19	О
ATOM	7184 N VAL B 426	8.067 35.120 53.458 1.00 19.66	N
ATOM	7186 CA VAL B 426	6.624 35.318 53.304 1.00 19.82	С
ATOM	7188 CB VAL B 426	5.810 34.102 53.825 1.00 19.55	C
ATOM	7190 CG1 VAL B 426	4.326 34.417 53.825 1.00 18.92	C
ATOM	7194 CG2 VAL B 426	6.122 32.843 52.986 1.00 19.22	C
ATOM	7198 C VAL B 426	6.207 36.568 54.050 1.00 20.19	С
ATOM	7199 O VAL B 426	5.549 37.418 53.511 1.00 20.87	O
ATOM	7200 N SER B 427	6.624 36.694 55.296 1.00 20.79	N
ATOM	7202 CA SER B 427	6.278 37.863 56.087 1.00 21.20	C
ATOM	7204 CB SER B 427	6.894 37.764 57.497 1.00 21.36	C
ATOM	7207 OG SER B 427	6.259 36.781 58.288 1.00 22.31	Ο
ATOM	7209 C SER B 427		С
ATOM	7210 O SER B 427		О
		7.924 39.027 54.738 1.00 21.51	N
	7213 CA LEU B 428	8.587 40.206 54.213 1.00 21.87	C
	7215 CB LEU B 428	10.006 39.877 53.752 1.00 22.01	С
	7218 CG LEU B 428	11.072 39.857 54.846 1.00 22.00	С
	7220 CD1 LEU B 428	12.358 39.137 54.352 1.00 22.22	C
	7224 CD2 LEU B 428	11.375 41.269 55.310 1.00 21.90	С
	7228 C LEU B 428	7.778 40.809 53.079 1.00 22.12	С
	7229 O LEU B 428	7.788 42.016 52.901 1.00 21.40	О
	7230 N ARG B 429	7.072 39.969 52.330 1.00 23.03	N
ATOM	7232 CA ARG B 429	6.227 40.446 51.244 1.00 24.02	С
	7234 CB ARG B 429	5.613 39.303 50.412 1.00 24.16	C
	7237 CG ARG B 429	6.557 38.518 49.526 1.00 24.59	C
	7240 CD ARG B 429	7.456 39.354 48.604 1.00 25.32	C
	7243 NE ARG B 429	8.494 38.543 47.975 1.00 24.69	N
	7245 CZ ARG B 429	8.371 37.961 46.791 1.00 26.36	С
	7246 NH1 ARG B 429	7.272 38.102 46.064 1.00 26.96	N
ATOM	7249 NH2 ARG B 429	9.355 37.221 46.331 1.00 27.37	N

ATOM 7252 C ARG B 429 5.106 41.270 51.814 1.00 24.59 C ATOM 7253 O ARG B 429 4.804 42.352 51.315 1.00 26.17 0 ATOM 7254 N THR B 430 4.444 40.774 52.838 1.00 24.58 N ATOM 7256 CA THR B 430 3.337 41.547 53.388 1.00 24.82 C ATOM 7258 CB THR B 430 2.507 40.728 54.397 1.00 25.23 C ATOM 7260 OG1 THR B 430 1.626 39.824 53.700 1.00 27.17 0 ATOM 7262 CG2 THR B 430 1.571 41.634 55.145 1.00 26.41 C ATOM 7266 C THR B 430 3.842 42.825 54.027 1.00 24.07 C 3.180 43.824 53.964 1.00 24.19 ATOM 7267 O THR B 430 0 ATOM 7268 N LEUB 431 5.015 42.783 54.636 1.00 23.83 N ATOM 7270 CA LEU B 431 5.598 43.946 55.276 1.00 23.82 C ATOM 7272 CB LEU B 431 6.853 43.566 56.053 1.00 24.30 C ATOM 7275 CG LEU B 431 6.814 43.380 57.565 1.00 25.96 C ATOM 7277 CD1 LEU B 431 5.442 43.604 58.172 1.00 27.20 C ATOM 7281 CD2 LEU B 431 7.349 42.013 57.897 1.00 28.21 C ATOM 7285 C LEU B 431 5.977 44.975 54.239 1.00 23.26 C ATOM 7286 O LEU B 431 5.923 46.176 54.492 1.00 22.84 O ATOM 7287 N SER B 432 6.373 44.498 53.069 1.00 22.92 N ATOM 7289 CA SER B 432 6.604 45.391 51.952 1.00 22.82 \mathbf{C} ATOM 7291 CB SER B 432 7.100 44.653 50.732 1.00 22.84 \mathbf{C} ATOM 7294 OG SER B 432 7.207 45.556 49.655 1.00 23.55 0 ATOM 7296 C SER B 432 5.341 46.132 51.589 1.00 22.67 C ATOM 7297 O SER B 432 5.423 47.296 51.315 1.00 22.90 0 ATOM 7298 N SER B 433 4.181 45.476 51.580 1.00 22.72 N ATOM 7300 CA SER B 433 2.907 46.183 51.309 1.00 23.00 C ATOM 7302 CB SER B 433 1.705 45.224 51.154 1.00 23.28 C ATOM 7305 OG SER B 433 1.809 44.429 49.973 1.00 27.58 0 ATOM 7307 C SER B 433 2.576 47.187 52.388 1.00 21.87 C ATOM 7308 O SER B 433 2.144 48.289 52.103 1.00 21.06 0 ATOM 7309 N VAL B 434 2.771 46.786 53.635 1.00 21.22 N ATOM 7311 CA VAL B 434 2.437 47.642 54.749 1.00 20.81 C ATOM 7313 CB VAL B 434 2.627 46.887 56.091 1.00 20.75 \mathbf{C} ATOM 7315 CG1 VAL B 434 2.403 47.788 57.295 1.00 20.51 C ATOM 7319 CG2 VAL B 434 1.656 45.736 56.178 1.00 21.14 C ATOM 7323 C VAL B 434 3.277 48.928 54.648 1.00 20.36 C ATOM 7324 O VAL B 434 2.819 49.996 55.001 1.00 19.94 O ATOM 7325 N HIS B 435 4.489 48.824 54.130 1.00 20.35 N ATOM 7327 CA HIS B 435 5.350 49.981 53.997 1.00 20.72 C ATOM 7329 CB HIS B 435 6.791 49.571 53.668 1.00 20.92 C ATOM 7332 CG HIS B 435 7.678 50.733 53.347 1.00 21.42 C ATOM 7333 ND1 HIS B 435 8.403 50.814 52.179 1.00 20.55 N ATOM 7335 CE1 HIS B 435 9.084 51.948 52.173 1.00 21.02 C ATOM 7337 NE2 HIS B 435 8.795 52.624 53.273 1.00 20.03 N ATOM 7339 CD2 HIS B 435 7.912 51.889 54.022 1.00 20.83 C ATOM 7341 C HIS B 435 4.831 50.921 52.924 1.00 20.87 C ATOM 7342 O HIS B 435 4.832 52.144 53.085 1.00 20.81 0 ATOM 7343 N SER B 436 4.385 50.357 51.824 1.00 21.23 N ATOM 7345 CA SER B 436 3.737 51.169 50.803 1.00 21.81

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ATOM	7347 CB SER B 436	3.417 50.312 49.584 1.00 21.64	С
		4.630 49.798 49.024 1.00 21.73	0
ATOM	7352 C SER B 436	2.493 51.904 51.338 1.00 22.24	C
ATOM	7353 O SER B 436	2.269 53.043 50.995 1.00 22.27	0
ATOM	7354 N GLU B 437	1.709 51.240 52.181 1.00 23.51	N
ATOM	7356 CA GLU B 437	0.548 51.827 52.856 1.00 24.49	C
ATOM	7358 CB GLU B 437	-0.209 50.754 53.671 1.00 24.99	C
ATOM	7361 CG GLU B 437	-1.228 49.931 52.862 1.00 28.62	C
ATOM	7364 CD GLU B 437	-1.545 48.518 53.432 1.00 33.03	С
ATOM	7365 OE1 GLU B 437	-1.696 47.556 52.624 1.00 35.00	0
ATOM	7366 OE2 GLU B 437	-1.657 48.345 54.671 1.00 33.87	0
ATOM	7367 C GLU B 437	1.006 52.968 53.771 1.00 24.70	С
ATOM	7368 O GLUB 437	0.335 54.007 53.864 1.00 24.42	O
ATOM	7369 N GLN B 438	2.155 52.772 54.424 1.00 24.99	N
ATOM	7371 CA GLN B 438	2.742 53.772 55.314 1.00 25.30	С
ATOM	7373 CB GLN B 438	3.912 53.186 56.108 1.00 24.95	С
ATOM	7376 CG GLN B 438	4.750 54.232 56.863 1.00 24.18	C
ATOM	7379 CD GLN B 438	4.012 54.826 58.049 1.00 23.98	С
ATOM	7380 OE1 GLN B 438	4.097 54.283 59.143 1.00 24.29	0
ATOM	7381 NE2 GLN B 438	3.295 55.930 57.843 1.00 22.11	N
ATOM	7384 C GLN B 438	3.207 55.039 54.582 1.00 26.53	C
ATOM	7385 O GLN B 438	2.925 56.139 55.064 1.00 25.78	0
ATOM	7386 N VAL B 439	3.943 54.882 53.465 1.00 28.03	N
ATOM	7388 CA VALB 439	4.355 56.019 52.617 1.00 29.51	С
ATOM	7390 CB VAL B 439	5.366 55.646 51.446 1.00 29.86	C
ATOM	7392 CG1 VAL B 439	6.675 55.089 51.971 1.00 30.85	C
ATOM	7396 CG2 VAL B 439	4.785 54.643 50.495 1.00 31.33	C
ATOM	7400 C VAL B 439	3.133 56.710 52.015 1.00 30.36	C
ATOM	7401 O VALB 439	3.102 57.944 51.858 1.00 30.23	0
ATOM	7402 N PHE B 440	2.113 55.925 51.691 1.00 31.79	N
ATOM	7404 CA PHE B 440	0.884 56.523 51.209 1.00 33.28	C
ATOM	7406 CB PHE B 440	-0.177 55.481 50.799 1.00 33.50	C
		-1.397 56.109 50.175 1.00 35.31	C
ATOM	7410 CD1 PHE B 440	-1.357 56.572 48.848 1.00 37.12	C
ATOM	7412 CE1 PHE B 440	-2.458 57.188 48.277 1.00 36.48	С
ATOM	7414 CZ PHE B 440	-3.613 57.377 49.041 1.00 36.71	C
ATOM	7416 CE2 PHE B 440	-3.660 56.946 50.364 1.00 36.17	C
ATOM	7418 CD2 PHE B 440	-2.551 56.322 50.927 1.00 36.31	C
ATOM	7420 C PHE B 440	0.379 57.442 52.319 1.00 33.80	C
ATOM	7421 O PHE B 440	0.318 58.651 52.152 1.00 33.44	Ο
ATOM	7422 N ALAB 441	0.093 56.843 53.471 1.00 35.03	N
ATOM	7424 CA ALA B 441	-0.382 57.555 54.654 1.00 35.88	С
		-0.533 56.566 55.813 1.00 35.75	C
ATOM	7430 C ALA B 441	0.485 58.754 55.097 1.00 36.81	C
	7431 O ALA B 441	-0.035 59.685 55.725 1.00 37.00	0
ATOM	7432 N LEUB 442	1.782 58.735 54.782 1.00 37.81	N
		2.689 59.798 55.206 1.00 38.67	C
ATOM	7436 CB LEU B 442	4.139 59.354 55.124 1.00 38.52	С

ATOM	7439 CG LEU B 442	4.636 58.724 56.433 1.00 38.11	С
		5.920 57.978 56.176 1.00 37.89	C
ATOM		4.839 59.754 57.535 1.00 37.08	С
ATOM	7449 C LEUB 442		С
ATOM	7450 O LEUB 442		0
ATOM	7451 N ARG B 443		N
ATOM		1.875 62.178 52.332 1.00 42.28	C
		1.702 61.772 50.869 1.00 42.73	Ċ
ATOM		2.904 61.040 50.284 1.00 43.42	Č
ATOM		2.729 60.693 48.821 1.00 45.87	Č
ATOM		2.899 61.842 47.916 1.00 47.49	N
	7466 CZ ARG B 443		C
	7467 NH1 ARG B 443		N
	7470 NH2 ARG B 443		N
	7473 C ARG B 443		C
	7474 O ARG B 443	0.659 64.248 52.492 1.00 42.56	Ö
ATOM	7475 N LEUB 444	-0.261 62.456 53.499 1.00 43.25	N
		-1.393 63.203 54.072 1.00 43.67	C
	7479 CB LEU B 444		Č
	7482 CG LEU B 444		Č
		-3.840 60.183 54.916 1.00 44.64	C
		-3.571 61.163 52.571 1.00 45.14	Č
	7492 C LEU B 444		C
ATOM	7493 O LEUB 444	-1.767 64.833 55.767 1.00 43.90	Ō
ATOM	7494 N GLN B 445	0.279 63.930 55.687 1.00 43.43	N
ATOM		0.759 64.627 56.879 1.00 43.35	C
ATOM	7498 CB GLN B 445	1.100 63.624 58.015 1.00 43.42	C
ATOM	7501 CG GLN B 445		C
ATOM	7504 CD GLN B 445	0.126 61.412 58.927 1.00 44.36	С
		0.823 60.623 59.559 1.00 45.11	0
		-1.155 61.646 59.220 1.00 43.92	N
	7509 C GLN B 445		C
ATOM	7510 O GLN B 445	2.807 65.809 57.352 1.00 43.42	0
		2.004 65.954 55.245 1.00 42.48	N
		3.054 66.859 54.724 1.00 41.88	С
		3.150 68.157 55.583 1.00 42.24	С
ATOM	7518 CG ASP B 446	2.425 69.372 54.954 1.00 43.60	C
ATOM	7519 OD1 ASP B 446	2.283 69.440 53.705 1.00 44.77	0
ATOM	7520 OD2 ASP B 446	1.986 70.328 55.654 1.00 45.73	О
ATOM	7521 C ASP B 446	4.435 66.163 54.600 1.00 40.47	С
ATOM	7522 O ASP B 446	5.475 66.823 54.481 1.00 40.55	O
ATOM	7523 N LYS B 447	4.443 64.834 54.599 1.00 38.43	N
		5.693 64.099 54.620 1.00 37.05	С
	7527 CB LYS B 447		C
	7530 CG LYS B 447		С
	7533 CD LYS B 447		C
		6.249 63.897 59.653 1.00 35.81	С
		4.944 64.489 59.979 1.00 36.74	N

ATOM	7543 C LYS B 447	5.885 63.284 53.334 1.00 36.02	C ·
ATOM	7544 O LYS B 447	5.567 62.091 53.266 1.00 36.06	Ο
ATOM	7545 N LYS B 448	6.408 63.958 52.311 1.00 34.70	N
ATOM	7547 CA LYS B 448	6.759 63.325 51.039 1.00 33.31	C
ATOM	7549 CB LYS B 448	6.669 64.320 49.883 1.00 33.27	С
ATOM	7552 CG LYS B 448	5.275 64.890 49.699 1.00 34.19	C
ATOM	7555 CD LYS B 448	5.283 66.251 49.021 1.00 34.98	C
ATOM	7558 CE LYS B 448	4.235 67.183 49.621 1.00 35.27	С
ATOM	7561 NZ LYS B 448	3.627 68.028 48.576 1.00 34.97	N
ATOM	7565 C LYS B 448	8.169 62.832 51.140 1.00 31.74	C
ATOM	7566 O LYS B 448	9.022 63.518 51.685 1.00 31.55	O
ATOM	7567 N LEUB 449	8.412 61.642 50.608 1.00 30.04	N
ATOM	7569 CA LEU B 449	9.750 61.071 50.579 1.00 28.75	C
ATOM	7571 CB LEU B 449	9.701 59.675 49.961 1.00 28.54	C
ATOM	7574 CG LEU B 449	8.773 58.628 50.582 1.00 28.08	С
ATOM	7576 CD1 LEU B 449	8.490 57.527 49.579 1.00 27.98	C
ATOM	7580 CD2 LEU B 449	9.369 58.038 51.852 1.00 27.62	C
ATOM	7584 C LEU B 449	10.660 61.982 49.748 1.00 27.73	С
ATOM	7585 O LEU B 449	10.156 62.590 48.820 1.00 27.76	О
ATOM	7586 N PRO B 450	11.962 62.097 50.070 1.00 26.77	N
ATOM	7587 CA PRO B 450	12.933 62.812 49.220 1.00 26.60	C
ATOM	7589 CB PRO B 450	14.229 62.728 50.031 1.00 26.41	C
ATOM	7592 CG PRO B 450	14.065 61.540 50.847 1.00 26.30	C
ATOM	7595 CD PRO B 450	12.631 61.559 51.264 1.00 26.56	C
ATOM	7598 C PRO B 450	13.138 62.151 47.850 1.00 26.48	C
ATOM	7599 O PRO B 450	12.644 61.047 47.694 1.00 26.36	О
ATOM	7600 N PRO B 451	13.803 62.804 46.894 1.00 26.69	N
ATOM	7601 CA PRO B 451	13.980 62.256 45.533 1.00 26.91	C
ATOM	7603 CB PRO B 451	14.962 63.232 44.886 1.00 26.97	С
ATOM	7606 CG PRO B 451	14.749 64.553 45.638 1.00 26.63	C
ATOM	7609 CD PRO B 451	14.371 64.163 47.023 1.00 26.77	C
ATOM	7612 C PRO B 451	14.486 60.792 45.404 1.00 27.34	C
ATOM	7613 O PRO B 451	13.804 60.024 44.722 1.00 27.32	О
ATOM	7614 N LEU B 452	15.598 60.394 46.021 1.00 27.60	N
ATOM	7616 CA LEU B 452	16.093 59.030 45.808 1.00 28.03	C
ATOM	7618 CB LEU B 452	17.507 58.826 46.389 1.00 28.73	C
ATOM	7621 CG LEU B 452	18.165 57.425 46.196 1.00 31.15	C
ATOM	7623 CD1 LEU B 452	18.178 56.894 44.714 1.00 31.92	C
ATOM	7627 CD2 LEU B 452	19.606 57.399 46.767 1.00 32.38	C
ATOM	7631 C LEU B 452	15.121 57.952 46.325 1.00 27.55	C
ATOM	7632 O LEU B 452	15.012 56.874 45.734 1.00 28.06	О
ATOM	7633 N LEU B 453	14.399 58.237 47.401 1.00 27.00	N
ATOM		13.393 57.294 47.923 1.00 26.27	C
ATOM	7637 CB LEU B 453	13.138 57.540 49.407 1.00 25.68	C
ATOM		14.400 57.532 50.278 1.00 24.28	С
	7642 CD1 LEU B 453	14.057 57.776 51.757 1.00 23.69	C
ATOM	7646 CD2 LEU B 453	15.198 56.240 50.093 1.00 22.47	C
ATOM	7650 C LEU B 453	12.072 57.356 47.153 1.00 26.62	C

ATOM	7651 O LEUB 453	11.378 56.374 47.071 1.00 26.26	O
ATOM	7652 N SER B 454	11.719 58.510 46.593 1.00 27.23	N
ATOM	7654 CA SER B 454	10.516 58.629 45.771 1.00 27.56	C
ATOM	7656 CB SER B 454	10.341 60.051 45.256 1.00 27.17	C
ATOM	7659 OG SER B 454	9.176 60.137 44.461 1.00 26.82	0
ATOM	7661 C SER B 454	10.546 57.685 44.570 1.00 28.60	С
ATOM	7662 O SER B 454	9.548 57.055 44.247 1.00 28.67	0
ATOM	7663 N GLU B 455	11.684 57.578 43.900 1.00 29.39	N
ATOM	7665 CA GLU B 455	11.711 56.799 42.693 1.00 30.28	С
ATOM	7667 CB GLU B 455	12.880 57.192 41.804 1.00 30.98	С
ATOM	7670 CG GLU B 455	14.270 56.907 42.332 1.00 34.53	С
ATOM	7673 CD GLU B 455	15.352 57.392 41.361 1.00 39.06	С
ATOM	7674 OE1 GLU B 455	15.249 57.056 40.142 1.00 41.53	О
ATOM	7675 OE2 GLU B 455	16.300 58.099 41.809 1.00 40.65	O
ATOM	7676 C GLU B 455	11.659 55.306 42.947 1.00 30.47	C
ATOM	7677 O GLU B 455	11.347 54.555 42.035 1.00 30.99	O
ATOM	7678 N ILE B 456	11.917 54.868 44.176 1.00 30.71	N
ATOM	7680 CA ILE B 456	11.794 53.440 44.533 1.00 30.70	C
ATOM	7682 CB ILE B 456	12.909 53.005 45.536 1.00 30.90	C
ATOM	7684 CG1 ILE B 456	14.241 53.638 45.165 1.00 32.23	C
ATOM	7687 CD1 ILE B 456	15.194 53.630 46.299 1.00 33.86	C
ATOM	7691 CG2 ILE B 456	13.105 51.465 45.551 1.00 30.72	C
ATOM	7695 C ILE B 456	10.423 53.077 45.118 1.00 30.23	C
ATOM	7696 O ILE B 456	9.972 51.948 44.964 1.00 30.77	O
ATOM	7697 N TRP B 457	9.754 54.015 45.781 1.00 29.72	N
ATOM	7699 CA TRP B 457	8.610 53.668 46.626 1.00 29.22	C
ATOM	7701 CB TRP B 457	8.993 53.752 48.104 1.00 29.06	C
ATOM	7704 CG TRP B 457	10.023 52.799 48.544 1.00 26.61	C
ATOM	7705 CD1 TRP B 457	10.233 51.534 48.082 1.00 26.22	С
ATOM	7707 NE1 TRP B 457	11.267 50.950 48.771 1.00 25.62	N
ATOM	7709 CE2 TRP B 457	11.742 51.844 49.689 1.00 23.49	C
ATOM	7710 CD2 TRP B 457	10.969 53.014 49.575 1.00 23.71	С
ATOM	7711 CE3 TRP B 457	11.244 54.082 50.426 1.00 23.40	С
ATOM	7713 CZ3 TRP B 457	12.278 53.953 51.353 1.00 22.52	C
ATOM	7715 CH2 TRP B 457	13.016 52.780 51.435 1.00 23.80	С
ATOM	7717 CZ2 TRP B 457	12.765 51.711 50.606 1.00 23.37	С
ATOM	7719 C TRP B 457	7.360 54.498 46.430 1.00 29.43	С
ATOM	7720 O TRP B 457	6.335 54.165 46.996 1.00 30.24	O
ATOM	7721 N ASP B 458	7.414 55.582 45.680 1.00 29.55	N
ATOM	7723 CA ASP B 458	6.172 56.245 45.270 1.00 29.58	C
ATOM	7725 CB ASP B 458	6.383 57.748 44.993 1.00 29.62	C
ATOM	7728 CG ASP B 458	6.558 58.597 46.270 1.00 29.19	C
ATOM	7729 OD1 ASP B 458	5.853 58.388 47.276 1.00 27.26	Ο
ATOM	7730 OD2 ASP B 458	7.375 59.536 46.325 1.00 29.12	O
ATOM	7731 C ASP B 458	5.643 55.547 44.020 1.00 29.27	C
ATOM	7732 O ASP B 458	4.540 55.010 44.023 1.00 29.42	0
ATOM	7733 O13 444 B 500	15.894 52.486 56.865 1.00 48.14	0
ATOM	7734 S12 444 B 500	15.474 51.542 57.867 1.00 46.56	S

ATOM	7735 O14 444 B 500	16.396 50.427 58.018 1.00 48.32	Ο
ATOM	7736 C01 444 B 500	15.582 52.491 59.353 1.00 48.77	С
ATOM	7737 C02 444 B 500	15.889 51.818 60.575 1.00 50.65	С
ATOM	7739 C03 444 B 500	15.958 52.565 61.760 1.00 51.57	C
ATOM	7741 C04 444 B 500	15.718 53.958 61.711 1.00 52.37	С
ATOM	7743 C05 444 B 500	15.406 54.615 60.487 1.00 51.11	C
ATOM	7745 C06 444 B 500	15.333 53.878 59.291 1.00 49.40	Ċ
ATOM	7747 N15 444 B 500	13.727 51.138 57.775 1.00 36.30	N
ATOM	7748 C16 444 B 500	13.081 50.396 58.957 1.00 33.50	C
ATOM	7751 C19 444 B 500	12.351 49.166 58.482 1.00 31.89	\mathbf{C}
ATOM	7752 F22 444 B 500	12.007 48.424 59.531 1.00 31.80	F
ATOM	7753 F21 444 B 500	13.079 48.342 57.710 1.00 31.53	F
ATOM	7754 F20 444 B 500	11.241 49.447 57.804 1.00 32.02	F
ATOM	7755 C23 444 B 500	12.784 52.170 57.243 1.00 29.65	C
ATOM	7756 C24 444 B 500	12.771 52.362 55.844 1.00 27.35	C
ATOM	7758 C25 444 B 500	11.945 53.318 55.224 1.00 24.31	C
ATOM	7760 C28 444 B 500	11.911 52.985 58.037 1.00 25.39	C
ATOM	7762 C27 444 B 500	11.090 53.944 57.426 1.00 23.40	C
ATOM	7764 C26 444 B 500	11.076 54.137 56.001 1.00 22.41	\mathbf{C}
ATOM	7765 C33 444 B 500	10.204 55.176 55.214 1.00 21.07	C
ATOM	7766 C34 444 B 500	8.816 55.450 55.874 1.00 21.30	C
ATOM	7767 F36 444 B 500	8.015 56.167 55.037 1.00 20.33	F
ATOM	7768 F37 444 B 500	8.113 54.341 56.184 1.00 21.82	F
ATOM	7769 F35 444 B 500	8.986 56.096 57.053 1.00 21.46	F
ATOM	7770 O42 444 B 500	9.950 54.781 53.835 1.00 19.04	O
ATOM	7772 C38 444 B 500	10.934 56.551 55.213 1.00 19.74	С
ATOM	7773 F39 444 B 500	11.397 56.954 56.422 1.00 18.29	F
ATOM	7774 F40 444 B 500	12.019 56.555 54.437 1.00 18.70	F
ATOM	7775 F41 444 B 500	10.199 57.555 54.733 1.00 20.76	F
ATOM	7776 N LEU C 220	68.407 95.876 84.954 1.00 20.46	N
ATOM	7778 CA LEU C 220	67.795 94.552 85.306 1.00 20.58	C
ATOM	7780 CB LEU C 220	67.642 93.651 84.059 1.00 20.70	C
ATOM	7783 CG LEU C 220	66.308 92.899 83.802 1.00 21.24	C
ATOM	7785 CD1 LEU C 220	66.541 91.475 83.287 1.00 21.11	C
ATOM	7789 CD2 LEU C 220	65.368 92.881 85.008 1.00 21.74	C
ATOM	7793 C LEU C 220	68.596 93.807 86.390 1.00 20.21	C
ATOM	7794 O LEU C 220	69.637 93.195 86.108 1.00 20.49	Ο
ATOM	7797 N THR C 221	68.083 93.847 87.621 1.00 19.34	N
ATOM	7799 CA THR C 221	68.701 93.172 88.756 1.00 18.30	C
ATOM	7801 CB THR C 221	68.088 93.684 90.106 1.00 18.36	C
ATOM	7803 OG1 THR C 221	66.687 93.393 90.171 1.00 17.31	O
ATOM	7805 CG2 THR C 221	68.162 95.212 90.228 1.00 17.98	C
ATOM	7809 C THR C 221	68.554 91.650 88.643 1.00 17.61	С
ATOM	7810 O THR C 221	67.801 91.155 87.820 1.00 17.01	0
ATOM	7811 N ALA C 222	69.283 90.924 89.484 1.00 17.25	N
ATOM	7813 CA ALA C 222	69.198 89.469 89.543 1.00 16.96	С
ATOM	7815 CB ALA C 222	70.278 88.938 90.408 1.00 16.75	С
ATOM	7819 C ALA C 222	67.836 89.005 90.069 1.00 16.95	C

ATOM	7820	O ALA C 222	67.353 87.956 89.647 1.00 16.95	Ο
ATOM	7821	N ALA C 223	67.249 89.795 90.985 1.00 16.64	N
ATOM	7823	CA ALA C 223		C
ATOM	7825	CB ALA C 223		Č
ATOM		C ALA C 223		C
ATOM		O ALA C 223		Ŏ
ATOM		N GLN C 224		N
ATOM		CA GLN C 224		C
ATOM		CB GLN C 224		C
ATOM		CG GLN C 224		C
ATOM		CD GLN C 224		Č
ATOM		OE1 GLN C 224		O
		NE2 GLN C 224		N
ATOM		C GLN C 224		C
ATOM		O GLN C 224		O
ATOM		N GLU C 225		N
ATOM		CA GLU C 225		C
ATOM		CB GLU C 225		C
ATOM		CG GLU C 225		C
		CD GLU C 225	68.906 88.731 84.764 1.00 20.57	C
ATOM		OE1 GLU C 225		
ATOM			69.079 88.724 83.521 1.00 22.87	0
ATOM		C GLU C 225		O C
ATOM	7862			
		N LEU C 226		0
ATOM				N
ATOM		CA LEU C 226		C
ATOM		CB LEU C 226	65.038 85.553 90.720 1.00 15.43	C
ATOM		CG LEU C 226		C
ATOM			65.124 83.034 90.639 1.00 16.08	C
ATOM		CD2 LEU C 226		C
ATOM		C LEU C 226	63.127 85.489 89.191 1.00 15.85	C
ATOM		O LEU C 226		0
ATOM			62.429 86.607 89.369 1.00 15.98	N
			60.986 86.516 89.433 1.00 16.23	C
			60.334 87.695 90.154 1.00 16.93	C
		CG MET C 227		C
		SD MET C 227		S
		CE MET C 227		C
ATOM		C MET C 227		C
		O MET C 227	59.376 85.790 87.945 1.00 15.35	0
		N ILE C 228	61.125 86.861 87.050 1.00 14.99	N
		CA ILE C 228	60.671 86.702 85.669 1.00 14.74	C
		CB ILE C 228	61.512 87.586 84.698 1.00 15.10	C
		CG1 ILE C 228		C
		CD1 ILE C 228	62.068 90.078 84.206 1.00 15.97	C
		CG2 ILE C 228	61.363 87.116 83.225 1.00 14.57	С
		C ILE C 228	60.754 85.239 85.275 1.00 14.01	C
ATOM	7917	O ILE C 228	59.870 84.691 84.626 1.00 12.80	0

ATOM	7918 N GLN C 229	61.834 84.619 85.720 1.00 14.08	N
ATOM	7920 CA GLN C 229		C
ATOM		63.500 82.856 85.991 1.00 14.35	Č
ATOM		64.174 81.669 85.348 1.00 15.62	Č
ATOM			C
ATOM			o
ATOM		66.150 82.038 86.730 1.00 15.74	N
ATOM	7933 C GLN C 229	61.057 82.331 86.094 1.00 13.31	C
ATOM		60.509 81.470 85.425 1.00 12.93	0
ATOM	•	60.768 82.592 87.370 1.00 12.70	N
ATOM		59.681 81.946 88.090 1.00 12.92	C
ATOM			
		59.694 82.346 89.572 1.00 12.73	C
ATOM		60.986 81.999 90.285 1.00 12.90	C
ATOM		60.801 81.507 91.697 1.00 13.18	C
ATOM		60.394 80.380 91.915 1.00 14.26	0
ATOM		61.136 82.336 92.659 1.00 14.08	N
ATOM		58.290 82.199 87.455 1.00 13.57	C
ATOM		57.493 81.298 87.404 1.00 13.61	0
ATOM			N
ATOM		56.758 83.645 86.217 1.00 15.16	C
ATOM		56.575 85.121 85.855 1.00 15.37	C
ATOM		56.062 86.070 86.952 1.00 16.43	С
ATOM		55.947 87.467 86.338 1.00 16.51	C
ATOM		54.732 85.634 87.621 1.00 16.52	C
ATOM		56.678 82.823 84.948 1.00 15.35	С
ATOM			O
ATOM	7971 N VAL C 232	57.795 82.666 84.251 1.00 15.94	N
ATOM	7973 CA VAL C 232	57.812 81.880 83.020 1.00 16.58	C
ATOM	7975 CB VAL C 232	59.152 82.087 82.231 1.00 16.85	C
ATOM	7977 CG1 VAL C 232	59.405 80.995 81.196 1.00 17.02	С
ATOM	7981 CG2 VAL C 232	59.161 83.455 81.558 1.00 17.16	C
ATOM	7985 C VAL C 232	57.562 80.415 83.366 1.00 17.03	C
ATOM	7986 O VAL C 232	56.726 79.770 82.762 1.00 17.47	O
ATOM	7987 N ALA C 233	58.268 79.899 84.367 1.00 17.59	N
ATOM	7989 CA ALA C 233	58.123 78.508 84.777 1.00 17.55	С
ATOM	7991 CB ALA C 233	59.068 78.211 85.893 1.00 17.17	С
ATOM	7995 C ALA C 233	56.686 78.203 85.202 1.00 18.36	C
ATOM	7996 O ALA C 233	56.148 77.165 84.849 1.00 18.30	O
ATOM	7997 N ALA C 234	56.081 79.114 85.964 1.00 19.19	N
	7999 CA ALA C 234	54.691 79.022 86.381 1.00 19.97	C
	8001 CB ALA C 234	54.277 80.311 87.092 1.00 20.01	Č
ATOM		53.778 78.803 85.183 1.00 21.16	C
	8006 O ALA C 234	52.928 77.918 85.203 1.00 21.00	Ö
	8007 N GLN C 235	53.958 79.640 84.160 1.00 22.27	N
	8009 CA GLN C 235		C
	8011 CB GLN C 235	53.658 80.751 82.032 1.00 23.80	Ċ
	8014 CG GLN C 235	52.924 80.935 80.730 1.00 26.40	C
	8017 CD GLN C 235	52.370 82.363 80.544 1.00 29.80	C
FILOIVI	0017 CD GEN C 233	J2.370 02.303 00.344 1.00 29.00	C

ATOM 8018 OE1 GLN C 235 53.130 83.337 80.427 1.00 30.99 0 ATOM 8019 NE2 GLN C 235 51.047 82.472 80.487 1.00 30.89 Ν ATOM 8022 C GLN C 235 53.307 78.225 82.200 1.00 24.09 C ATOM 8023 O GLN C 235 52.339 77.729 81.585 1.00 23.49 0 ATOM 8024 N LEU C 236 54.482 77.611 82.306 1.00 25.22 N ATOM 8026 CA LEU C 236 54.736 76.290 81.724 1.00 26.63 C ATOM 8028 CB LEU C 236 56.226 75.973 81.743 1.00 26.79 ATOM 8031 CG LEU C 236 56.787 75.400 80.451 1.00 28.16 C ATOM 8033 CD1 LEU C 236 56.763 76.459 79.351 1.00 29.45 C ATOM 8037 CD2 LEU C 236 58.202 74.896 80.685 1.00 29.39 C ATOM 8041 C LEU C 236 54.006 75.184 82.456 1.00 27.59 ATOM 8042 O LEU C 236 53.410 74.312 81.836 1.00 27.49 O ATOM 8043 N GLN C 237 54.060 75.242 83.785 1.00 29.25 N ATOM 8045 CA GLN C 237 53.414 74.268 84.682 1.00 30.40 C ATOM 8047 CB GLN C 237 53.867 74.499 86.135 1.00 30.10 C ATOM 8050 CG GLN C 237 55.380 74.341 86.351 1.00 30.39 C ATOM 8053 CD GLN C 237 55.922 75.063 87.603 1.00 30.44 C ATOM 8054 OE1 GLN C 237 55.217 75.893 88.242 1.00 31.79 0 ATOM 8055 NE2 GLN C 237 57.179 74.752 87.950 1.00 26.66 N ATOM 8058 C GLN C 237 51.879 74.315 84.603 1.00 31.76 ATOM 8059 O GLN C 237 51.201 73.303 84.769 1.00 31.65 0 ATOM 8060 N CYS C 238 51.337 75.494 84.350 1.00 33.85 N ATOM 8062 CA CYS C 238 49.903 75.652 84.231 1.00 36.00 C ATOM 8064 CB CYS C 238 49.534 77.116 84.461 1.00 36.02 ATOM 8067 SG CYS C 238 49.621 77.474 86.236 1.00 37.59 S ATOM 8068 C CYS C 238 49.386 75.105 82.891 1.00 37.79 C ATOM 8069 O CYS C 238 48.207 74.813 82.764 1.00 37.55 0 ATOM 8070 N ASN C 239 50.285 74.946 81.921 1.00 40.34 N ATOM 8072 CA ASN C 239 50.019 74.205 80.698 1.00 42.63 \mathbf{C} ATOM 8074 CB ASN C 239 51.118 74.510 79.681 1.00 42.83 C ATOM 8077 CG ASN C 239 50.786 74.006 78.315 1.00 44.12 \mathbf{C} ATOM 8078 OD1 ASN C 239 49.798 74.422 77.728 1.00 46.84 0 ATOM 8079 ND2 ASN C 239 51.598 73.085 77.798 1.00 46.09 N ATOM 8082 C ASN C 239 49.939 72.691 80.963 1.00 44.86 C ATOM 8083 O ASN C 239 50.957 71.989 80.997 1.00 45.24 0 ATOM 8084 N LYS C 240 48.732 72.182 81.187 1.00 47.39 N ATOM 8086 CA LYS C 240 48.550 70.748 81.424 1.00 49.15 C ATOM 8088 CB LYS C 240 47.781 70.503 82.729 1.00 49.57 C ATOM 8091 CG LYS C 240 48.507 70.929 84.012 1.00 50.75 C ATOM 8094 CD LYS C 240 47.948 70.193 85.265 1.00 52.28 C ATOM 8097 CE LYS C 240 47.419 71.177 86.342 1.00 53.52 ATOM 8100 NZ LYS C 240 47.743 70.775 87.756 1.00 53.89 N ATOM 8104 C LYS C 240 47.804 70.106 80.254 1.00 50.30 C ATOM 8105 O LYS C 240 47.424 68.938 80.323 1.00 50.42 0 ATOM 8106 N ARG C 241 47.601 70.873 79.184 1.00 51.69 N ATOM 8108 CA ARG C 241 46.918 70.388 77.987 1.00 52.70 C ATOM 8110 CB ARG C 241 46.974 71.449 76.886 1.00 52.54 C ATOM 8113 CG ARG C 241 46.146 72.674 77.168 1.00 51.29

ATOM	8116 CD ARG C 241	46.528 73.889 76.361 1.00 49.48	С
ATOM		45.874 75.080 76.905 1.00 48.48	N
ATOM	8121 CZ ARG C 241	45.827 76.268 76.306 1.00 47.84	С
ATOM	8122 NH1 ARG C 241		N
ATOM	8125 NH2 ARG C 241	45.207 77.269 76.909 1.00 48.35	N
ATOM		47.557 69.102 77.465 1.00 54.27	C
ATOM	8129 O ARG C 241	46.900 68.060 77.338 1.00 54.32	0
ATOM	8130 N SER C 242	48.850 69.180 77.173 1.00 55.92	N
ATOM	8132 CA SER C 242	49.563 68.050 76.591 1.00 57.26	С
ATOM	8134 CB SER C 242	51.019 68.420 76.283 1.00 57.29	C
ATOM	8137 OG SER C 242	51.473 69.444 77.157 1.00 58.10	0
ATOM	8139 C SER C 242	49.477 66.799 77.479 1.00 58.42	C
ATOM	8140 O SER C 242	49.664 65.676 76.975 1.00 59.11	Ο
ATOM	8141 N PHE C 243	49.206 66.980 78.781 1.00 59.46	N
ATOM	8143 CA PHE C 243	48.865 65.854 79.686 1.00 60.31	С
ATOM	8145 CB PHE C 243	50.077 65.405 80.541 1.00 60.66	С
ATOM	8148 CG PHE C 243	50.153 66.059 81.920 1.00 62.56	С
ATOM	8149 CD1 PHE C 243	50.147 65.278 83.098 1.00 64.33	С
ATOM	8151 CE1 PHE C 243	50.223 65.895 84.379 1.00 64.98	С
ATOM	8153 CZ PHE C 243	50.311 67.300 84.473 1.00 64.86	C
ATOM	8155 CE2 PHE C 243	50.329 68.078 83.298 1.00 64.42	С
ATOM	8157 CD2 PHE C 243	50.251 67.455 82.038 1.00 63.80	С
ATOM	8159 C PHE C 243	47.669 66.186 80.583 1.00 60.21	C
ATOM	8160 O PHE C 243	46.533 65.826 80.274 1.00 60.43	0
ATOM	8161 N LYS C 248	39.626 65.075 76.301 1.00 41.86	N
ATOM	8163 CA LYS C 248	38.541 65.296 77.242 1.00 42.05	С
ATOM	8165 CB LYS C 248	38.891 66.465 78.181 1.00 42.47	С
ATOM	8168 CG LYS C 248	40.049 66.219 79.139 1.00 44.16	Ċ
ATOM	8171 CD LYS C 248	39.649 65.197 80.180 1.00 46.13	С
ATOM	8174 CE LYS C 248	40.526 65.235 81.417 1.00 46.95	С
ATOM	8177 NZ LYS C 248	40.322 63.973 82.231 1.00 47.61	N
ATOM	8181 C LYS C 248	37.239 65.645 76.521 1.00 41.37	С
ATOM	8182 O LYS C 248	36.147 65.300 76.996 1.00 41.73	0
ATOM	8183 N VAL C 249	37.379 66.289 75.357 1.00 40.21	N
ATOM	8185 CA VAL C 249	36.464 67.352 74.905 1.00 39.12	С
ATOM	8187 CB VAL C 249	37.311 68.530 74.334 1.00 39.26	С
ATOM	8189 CG1 VAL C 249	36.471 69.495 73.527 1.00 39.31	С
ATOM	8193 CG2 VAL C 249	38.051 69.262 75.467 1.00 39.63	С
ATOM	8197 C VAL C 249	35.472 66.941 73.834 1.00 37.78	C
ATOM	8198 O VAL C 249	35.825 66.168 72.963 1.00 37.84	0
ATOM	8199 N THR C 250	34.256 67.496 73.880 1.00 36.34	N
ATOM	8201 CA THR C 250	33.251 67.297 72.826 1.00 35.50	C
ATOM	8203 CB THR C 250	32.101 68.355 72.890 1.00 35.49	C
	8205 OG1 THR C 250	31.341 68.188 74.086 1.00 35.88	0
ATOM	8207 CG2 THR C 250	31.040 68.134 71.808 1.00 34.99	Ċ
ATOM	8211 C THR C 250	33.918 67.351 71.458 1.00 34.68	C
	8212 O THR C 250	34.625 68.304 71.143 1.00 34.47	0
	8213 N PRO C 251	33.698 66.327 70.643 1.00 33.91	N

ATOM	8214 CA PRO C 251	34.356 66.253 69.339 1.00 33.43	С
ATOM	8216 CB PRO C 251	33.774 64.977 68.720 1.00 33.40	С
ATOM	8219 CG PRO C 251		Č
ATOM			C
ATOM	8225 C PRO C 251	34.011 67.452 68.462 1.00 32.89	C
	8226 O PRO C 251		0
	8227 N TRP C 252		Ň
	8229 CA TRP C 252	34.679 68.934 66.686 1.00 32.35	C
	8231 CB TRP C 252	35.944 69.601 66.140 1.00 32.11	Č
	8234 CG TRP C 252		C
		35.682 70.590 63.784 1.00 28.00	C
	8237 NE1 TRP C 252		N
	8239 CE2 TRP C 252		C
		35.243 72.035 65.427 1.00 27.25	C
	8240 CB2 TRI C 252 8241 CE3 TRP C 252		C
	8241 CE3 TRI C 232 8243 CZ3 TRP C 252	34.615 74.085 66.525 1.00 26.17	C
	8245 CH2 TRP C 252	34.447 74.706 65.284 1.00 25.83	C
			C
ATOM	8249 C TRP C 252	33.952 68.186 65.570 1.00 32.80	
	8250 O TRP C 252	34.509 67.232 65.025 1.00 32.69	C
			0 N
ATOM		32.713 68.574 65.253 1.00 33.34	N
		31.984 67.939 64.147 1.00 33.88	C
	8254 CB PRO C 253		C
ATOM		30.713 69.791 65.065 1.00 33.48	C
ATOM	8260 CD PRO C 253	31.897 69.594 65.939 1.00 33.29	C
ATOM		32.697 68.001 62.763 1.00 34.60	C
	8264 O PRO C 253	32.411 68.878 61.939 1.00 34.89	0
ATOM		33.605 67.045 62.532 1.00 35.09	N
ATOM			C
	8269 CB ALA C 254		C
_	8273 C ALA C 254	33.462 66.113 60.299 1.00 34.95	C
	8274 O ALA C 254		0
	8275 N GLN C 259	26.034 75.361 59.136 1.00 34.42	N
	8277 CA GLN C 259		C
	8279 CB GLN C 259	24.152 76.445 57.876 1.00 35.11	С
	8282 CG GLN C 259		C
	8285 CD GLN C 259	22.642 78.488 57.206 1.00 37.82	C
	8286 OE1 GLN C 259	22.260 79.675 57.322 1.00 39.20	О
	8287 NE2 GLN C 259	21.988 77.583 56.462 1.00 35.43	N
	8290 C GLN C 259	23.602 74.780 59.740 1.00 34.03	С
ATOM	8291 O GLN C 259	22.420 75.113 59.872 1.00 33.75	О
ATOM	8292 N SER C 260	24.036 73.549 60.044 1.00 33.33	Ν
ATOM	8294 CA SER C 260	23.219 72.625 60.853 1.00 32.74	C
ATOM	8296 CB SER C 260	23.827 71.210 60.892 1.00 32.55	C
ATOM	8299 OG SER C 260	23.138 70.349 61.793 1.00 31.99	0
ATOM	8301 C SER C 260	23.115 73.227 62.262 1.00 32.60	C
ATOM	8302 O SER C 260	24.105 73.762 62.787 1.00 32.47	0
ATOM	8303 N ARG C 261	21.920 73.170 62.858 1.00 32.19	N

ATOM	8305 CA ARG C 261	21.679 73.830 64.144 1.00 31.83	C
ATOM	8307 CB ARG C 261	20.199 74.230 64.335 1.00 31.96	C
ATOM	8310 CG ARG C 261	19.869 75.702 63.931 1.00 33.08	С
ATOM	8313 CD ARG C 261	18.946 75.860 62.706 1.00 34.91	C
ATOM	8316 NE ARG C 261	17.545 75.543 63.025 1.00 36.69	N
ATOM	8318 CZ ARG C 261	16.934 74.357 62.826 1.00 37.43	C
ATOM	8319 NH1 ARG C 261	17.575 73.322 62.288 1.00 37.47	N
ATOM	8322 NH2 ARG C 261	15.655 74.204 63.171 1.00 37.56	N
ATOM	8325 C ARG C 261	22.194 72.974 65.295 1.00 31.11	С
ATOM	8326 O ARG C 261	22.808 73.506 66.213 1.00 31.05	O
ATOM	8327 N ASP C 262	21.975 71.661 65.234 1.00 30.40	N
ATOM	8329 CA ASP C 262	22.572 70.736 66.206 1.00 29.93	С
ATOM	8331 CB ASP C 262	22.117 69.305 65.951 1.00 30.03	С
		20.616 69.111 66.142 1.00 30.19	С
		19.944 68.672 65.187 1.00 30.32	0
	8336 OD2 ASP C 262	20.015 69.349 67.205 1.00 31.11	0
ATOM	8337 C ASP C 262	24.108 70.782 66.164 1.00 29.57	С
	8338 O ASP C 262	24.756 70.638 67.205 1.00 29.64	Ō
ATOM	8339 N ALA C 263		N
		26.142 71.119 64.782 1.00 28.34	C
		26.521 70.866 63.329 1.00 28.10	Ċ
	8347 C ALA C 263		C
	8348 O ALA C 263		Ō
	8349 N ARG C 264		N
		26.188 74.837 65.655 1.00 27.18	C
	8353 CB ARG C 264		C
	8356 CG ARG C 264		Ċ
ATOM	8359 CD ARG C 264	24.575 77.961 63.902 1.00 33.50	C
	8362 NE ARG C 264		N
	8364 CZ ARG C 264		С
		26.528 79.731 62.662 1.00 41.58	N
		26.482 78.479 60.744 1.00 41.03	N
	8371 C ARG C 264		C
	8372 O ARG C 264		0
ATOM	8373 N GLN C 265	25.374 74.190 67.854 1.00 24.98	N
ATOM	8375 CA GLN C 265	25.361 73.998 69.305 1.00 24.58	С
ATOM	8377 CB GLN C 265	24.019 73.382 69.729 1.00 25.17	С
	8380 CG GLN C 265	23.785 73.104 71.245 1.00 27.23	C
ATOM	8383 CD GLN C 265	22.673 72.002 71.480 1.00 31.77	C
	8384 OE1 GLN C 265	21.664 71.909 70.732 1.00 31.49	0
	8385 NE2 GLN C 265	22.879 71.169 72.513 1.00 34.62	N
	8388 C GLN C 265	26.488 73.106 69.779 1.00 23.29	C
	8389 O GLN C 265	27.023 73.314 70.868 1.00 22.92	Ō
	8390 N GLN C 266	26.847 72.114 68.972 1.00 21.85	N
	8392 CA GLN C 266	27.948 71.227 69.327 1.00 20.84	C
	8394 CB GLN C 266	27.961 69.976 68.460 1.00 21.06	C
	8397 CG GLN C 266	29.137 69.048 68.790 1.00 21.74	С
	8400 CD GLN C 266	29.085 67.730 68.055 1.00 22.54	C

ATOM	8401	OE1 GLN C 266	28.024 67.307 67.577 1.00 22.20	О
ATOM	8402	NE2 GLN C 266	30.238 67.075 67.953 1.00 22.63	N
ATOM	8405	C GLN C 266	29.299 71.917 69.233 1.00 19.52	С
ATOM	8406	O GLN C 266	30.167 71.688 70.057 1.00 19.32	O
ATOM	8407	N ARG C 267	29.485 72.749 68.221 1.00 18.43	N
ATOM	8409	CA ARG C 267	30.707 73.551 68.113 1.00 17.70	С
ATOM	8411	CB ARG C 267	30.783 74.267 66.771 1.00 18.24	C
ATOM	8414	CG ARG C 267	31.132 73.348 65.639 1.00 20.40	C
ATOM	8417	CD ARG C 267	31.076 74.008 64.290 1.00 23.57	С
ATOM	8420	NE ARG C 267	31.321 73.044 63.220 1.00 25.63	N
ATOM	8422	CZ ARG C 267	30.546 72.872 62.166 1.00 27.98	С
ATOM	8423	NH1 ARG C 267	29.445 73.600 62.004 1.00 28.84	N
ATOM	8426	NH2 ARG C 267	30.875 71.960 61.264 1.00 29.05	N
ATOM	8429	C ARG C 267	30.840 74.581 69.204 1.00 15.71	C
ATOM	8430	O ARG C 267	31.925 74.870 69.603 1.00 14.98	Ο
ATOM	8431	N PHE C 268	29.729 75.146 69.652 1.00 14.61	N
ATOM	8433	CA PHE C 268	29.735 76.136 70.714 1.00 14.06	С
ATOM	8435	CB PHE C 268	28.362 76.820 70.846 1.00 13.77	C
ATOM	8438	CG PHE C 268	28.190 77.607 72.113 1.00 13.29	С
ATOM	8439	CD1 PHE C 268	28.887 78.764 72.316 1.00 14.01	C
ATOM	8441	CE1 PHE C 268	28.730 79.493 73.497 1.00 15.81	C
ATOM	8443	CZ PHE C 268	27.866 79.050 74.481 1.00 15.75	C
ATOM	8445	CE2 PHE C 268	27.157 77.891 74.275 1.00 15.55	C
ATOM	8447	CD2 PHE C 268	27.322 77.179 73.099 1.00 14.11	C
ATOM	8449	C PHE C 268	30.165 75.434 72.001 1.00 13.72	С
ATOM	8450	O PHE C 268	31.000 75.938 72.732 1.00 12.92	0
ATOM	8451	N ALA C 269	29.621 74.248 72.256 1.00 13.79	N
ATOM	8453	CA ALA C 269	30.017 73.470 73.435 1.00 13.65	C
ATOM	8455	CB ALA C 269	29.192 72.179 73.536 1.00 13.09	C
ATOM	8459	C ALA C 269	31.536 73.186 73.394 1.00 13.63	С
ATOM			32.242 73.449 74.361 1.00 12.70	О
ATOM	8461	N HIS C 270	32.021 72.690 72.252 1.00 14.13	N
ATOM	8463	CA HIS C 270	33.442 72.440 72.035 1.00 14.56	C
ATOM	8465	CB HIS C 270	33.746 72.133 70.545 1.00 14.66	C
ATOM	8468	CG HIS C 270	35.204 71.893 70.277 1.00 16.74	C
ATOM	8469	ND1 HIS C 270	35.857 70.744 70.672 1.00 18.73	N
ATOM	8471	CE1 HIS C 270	37.138 70.828 70.359 1.00 18.04	С
ATOM	8473	NE2 HIS C 270	37.340 71.987 69.764 1.00 18.65	N
ATOM	8475	CD2 HIS C 270	36.150 72.677 69.707 1.00 18.49	C
ATOM	8477	C HIS C 270	34.244 73.635 72.510 1.00 14.41	С
ATOM	8478	O HIS C 270	35.193 73.499 73.258 1.00 13.94	0
ATOM	8479	N PHE C 271	33.821 74.814 72.077 1.00 15.11	N
ATOM	8481	CA PHE C 271	34.479 76.089 72.388 1.00 15.73	С
ATOM	8483	CB PHE C 271	33.773 77.198 71.613 1.00 15.88	С
ATOM	8486	CG PHE C 271	34.476 77.594 70.389 1.00 18.73	С
ATOM	8487	CD1 PHE C 271	34.874 76.651 69.473 1.00 20.86	С
ATOM	8489	CE1 PHE C 271	35.561 77.022 68.312 1.00 22.61	C
ATOM	8491	CZ PHE C 271	35.873 78.333 68.072 1.00 23.46	С

ATOM	8493	CE2 PHE C 271	35.490 79.302 68.989 1.00 25.08	C
ATOM	8495	CD2 PHE C 271	34.790 78.926 70.156 1.00 23.86	С
ATOM	8497	C PHE C 271	34.420 76.429 73.867 1.00 15.43	С
ATOM	8498	O PHE C 271	35.301 76.990 74.447 1.00 15.27	O
ATOM	8499	N THR C 272	33.291 76.111 74.431 1.00 16.05	N
ATOM	8501	CA THR C 272	32.954 76.322 75.815 1.00 16.18	С
			31.435 75.945 75.906 1.00 16.24	C
		OG1 THR C 272		0
ATOM		CG2 THR C 272		Č
ATOM		C THR C 272		C
		O THR C 272		Ö
		N GLU C 273		N
			35.168 73.407 76.990 1.00 16.01	C
			34.916 71.944 76.588 1.00 15.86	Č
		CG GLU C 273		Č
		CD GLU C 273		č
			31.896 70.177 75.770 1.00 17.58	Ö
		OE2 GLU C 273		ŏ
		C GLU C 273		c
		O GLU C 273		ŏ
		N LEU C 274		N
			38.303 74.947 75.535 1.00 15.67	Ċ
		CB LEU C 274		Č
		CG LEU C 274		C
			39.106 74.592 71.689 1.00 15.92	C
		CD2 LEU C 274		C
		C LEU C 274		c
		O LEU C 274		0
			37.479 77.076 76.517 1.00 14.12	N
			37.538 78.172 77.473 1.00 14.12	C
			36.372 79.116 77.314 1.00 14.24	C
		C ALA C 275		C
		O ALA C 275 N ILE C 276	38.372 78.231 79.725 1.00 14.45 36.878 76.640 79.258 1.00 14.52	0
		CA ILE C 276		N C
		CB ILE C 276	35.952 75.057 80.921 1.00 14.89	C
		CG1 ILE C 276	34.659 75.745 81.324 1.00 14.39	C
			33.486 74.802 81.357 1.00 14.79	C
			36.378 74.145 82.042 1.00 15.05	C
			38.472 75.648 80.894 1.00 15.15	
		C ILE C 276		C
		O ILE C 276	39.021 75.983 81.938 1.00 15.88	0 N
		N ILE C 277	39.105 74.917 79.986 1.00 14.95	N
		CA ILE C 277	40.508 74.571 80.181 1.00 15.24	C
		CB ILE C 277	41.068 73.786 78.980 1.00 15.29	C
		CG1 ILE C 277	40.395 72.418 78.849 1.00 14.81	C
			40.549 71.790 77.473 1.00 14.39	C
			42.569 73.589 79.115 1.00 15.22	C
ATOM	0273	C ILE C 277	41.365 75.835 80.453 1.00 16.14	С

ATOM	8594 O ILE C 277 42	2.272 75.817 81.306 1.00 15.48	Ο
ATOM		1.081 76.937 79.763 1.00 17.05	N
ATOM		41.862 78.159 79.982 1.00 18.26	С
ATOM		41.579 79.195 78.913 1.00 18.25	Ċ
ATOM		42.183 78.803 77.710 1.00 21.13	Ō
ATOM		1.606 78.794 81.328 1.00 18.55	C
ATOM		2.535 79.250 81.976 1.00 18.73	Ö
ATOM		0.337 78.854 81.717 1.00 19.13	N
ATOM		39.946 79.399 82.996 1.00 19.38	C
ATOM		38.422 79.263 83.218 1.00 19.63	Č
ATOM		38.068 79.485 84.675 1.00 19.71	C
ATOM	8616 CG2 VAL C 279	37.673 80.259 82.351 1.00 19.37	C
ATOM		0.742 78.717 84.107 1.00 19.42	C
ATOM		1.283 79.385 84.977 1.00 18.84	Ö
ATOM		0.844 77.397 84.038 1.00 20.05	N
ATOM		41.561 76.610 85.038 1.00 20.99	C
ATOM		41.387 75.099 84.779 1.00 21.16	C
ATOM		39.938 74.621 85.031 1.00 22.87	C
ATOM		39.677 73.134 84.764 1.00 23.27	C
ATOM		40.022 72.595 83.702 1.00 23.27	o
ATOM	8634 NE2 GLN C 280	39.007 72.493 85.708 1.00 21.18	N
ATOM		3.028 76.992 85.069 1.00 21.43	C
ATOM		3.582 77.252 86.122 1.00 22.17	o
		3.648 77.043 83.906 1.00 21.62	N
ATOM		45.040 77.401 83.811 1.00 22.14	C
ATOM			
ATOM		45.458 77.362 82.350 1.00 22.58	C
ATOM		45.460 75.961 81.784 1.00 23.93	C
ATOM		46.005 75.892 80.377 1.00 25.78	C
ATOM		46.484 76.928 79.869 1.00 25.80	0
ATOM		45.953 74.781 79.794 1.00 28.08	0
ATOM		5.348 78.793 84.361 1.00 22.28	C
ATOM		6.351 79.012 85.047 1.00 22.14	0
		5.504 79.745 84.024 1.00 22.54	N
		4.670 81.095 84.519 1.00 22.92	C
		3.659 82.024 83.863 1.00 22.97	·C
		43.989 82.210 82.383 1.00 23.12	C
		42.862 82.862 81.586 1.00 23.40	C
		43.652 83.368 84.588 1.00 24.23	C
		.509 81.164 86.050 1.00 23.31	C
		5.172 81.981 86.687 1.00 24.19	0
		3.623 80.349 86.636 1.00 22.61	N
		43.436 80.374 88.075 1.00 22.32	C
		42.161 79.568 88.543 1.00 22.19	C
		42.222 79.274 90.040 1.00 21.88	C
		40.885 80.333 88.239 1.00 20.78	С
		4.711 79.834 88.757 1.00 22.63	C
		15.164 80.367 89.776 1.00 22.75	0
ATOM	8689 N ASP C 284 4	5.279 78.771 88.202 1.00 22.59	N

ATOM	8691 CA ASP C 284	46.484 78.174 88.761 1.00 22.78	С
ATOM	8693 CB ASP C 284	46.843 76.887 88.033 1.00 23.50	C
ATOM	8696 CG ASP C 284	45.915 75.767 88.355 1.00 25.75	С
ATOM	8697 OD1 ASP C 284	45.928 74.776 87.589 1.00 30.52	О
ATOM	8698 OD2 ASP C 284	45.144 75.788 89.345 1.00 29.12	O
ATOM	8699 C ASP C 284	47.634 79.119 88.620 1.00 22.09	С
ATOM	8700 O ASP C 284	48.455 79.250 89.520 1.00 22.04	O
ATOM	8701 N PHE C 285	47.697 79.781 87.473 1.00 21.76	N
ATOM	8703 CA PHE C 285	48.791 80.695 87.216 1.00 21.35	С
ATOM	8705 CB PHE C 285	48.822 81.161 85.760 1.00 20.96	C
ATOM	8708 CG PHE C 285	49.906 82.156 85.483 1.00 20.14	С
ATOM	8709 CD1 PHE C 285	51.211 81.785 85.451 1.00 20.14	C
ATOM	8711 CE1 PHE C 285	52.190 82.731 85.214 1.00 19.57	С
ATOM	8713 CZ PHE C 285	51.880 84.028 85.036 1.00 17.52	С
ATOM	8715 CE2 PHE C 285	50.621 84.408 85.070 1.00 20.11	С
ATOM	8717 CD2 PHE C 285	49.618 83.478 85.296 1.00 21.14	C
ATOM	8719 C PHE C 285	48.748 81.873 88.208 1.00 21.51	С
ATOM	8720 O PHE C 285	49.776 82.187 88.819 1.00 21.70	0
ATOM	8721 N ALA C 286	47.573 82.476 88.411 1.00 21.08	N
ATOM	8723 CA ALA C 286	47.447 83.633 89.303 1.00 21.05	С
ATOM	8725 CB ALA C 286	46.036 84.111 89.347 1.00 20.86	С
ATOM	8729 C ALA C 286	47.933 83.331 90.717 1.00 21.37	С
ATOM	8730 O ALA C 286	48.581 84.183 91.346 1.00 20.40	Ο
ATOM	8731 N LYS C 287	47.632 82.108 91.181 1.00 21.89	N
ATOM	8733 CA LYS C 287	48.037 81.617 92.494 1.00 22.91	C
ATOM	8735 CB LYS C 287	47.450 80.200 92.767 1.00 24.20	С
ATOM	8738 CG LYS C 287	45.998 80.062 93.408 1.00 28.09	С
ATOM	8741 CD LYS C 287	45.073 81.324 93.216 1.00 33.90	C
ATOM	8744 CE LYS C 287	43.517 81.009 93.140 1.00 36.88	С
ATOM	8747 NZ LYS C 287	42.894 80.562 94.443 1.00 36.46	N
ATOM	8751 C LYS C 287	49.568 81.580 92.624 1.00 22.37	С
ATOM	8752 O LYS C 287	50.078 81.671 93.730 1.00 22.07	O
ATOM	8753 N GLN C 288	50.289 81.419 91.507 1.00 22.16	N
ATOM	8755 CA GLN C 288	51.767 81.415 91.511 1.00 22.02	С
ATOM	8757 CB GLN C 288	52.344 80.364 90.525 1.00 22.35	С
ATOM	8760 CG GLN C 288	52.179 78.882 90.981 1.00 24.94	С
ATOM	8763 CD GLN C 288	53.223 78.394 92.061 1.00 29.71	С
ATOM	8764 OE1 GLN C 288	53.582 79.133 93.000 1.00 33.10	О
ATOM	8765 NE2 GLN C 288	53.689 77.148 91.914 1.00 30.72	N
ATOM	8768 C GLN C 288	52.403 82.787 91.271 1.00 20.81	C
ATOM	8769 O GLN C 288	53.608 82.910 91.281 1.00 20.00	O
ATOM	8770 N VAL C 289	51.595 83.814 91.054 1.00 20.62	N
ATOM	8772 CA VAL C 289	52.101 85.189 90.927 1.00 20.38	С
ATOM	8774 CB VAL C 289	51.119 86.084 90.141 1.00 20.08	С
ATOM	8776 CG1 VAL C 289	51.611 87.489 90.103 1.00 20.13	С
ATOM	8780 CG2 VAL C 289	50.922 85.567 88.728 1.00 19.83	C
ATOM	8784 C VAL C 289	52.285 85.775 92.337 1.00 20.40	С
ATOM	8785 O VALC 289	51.306 85.863 93.089 1.00 20.53	0

ATOM	8786 N PRO C 290	53.508 86.160 92.722 1.00 20.04	N
ATOM	8787 CA PRO C 290	53.716 86.672 94.083 1.00 19.48	С
ATOM	8789 CB PRO C 290	55.193 87.062 94.105 1.00 19.41	С
	8792 CG PRO C 290	55.833 86.367 92.956 1.00 19.42	C
ATOM	8795 CD PRO C 290	54.763 86.136 91.944 1.00 19.87	Č
	8798 C PRO C 290	52.819 87.879 94.342 1.00 19.25	C
	8799 O PRO C 290	52.659 88.740 93.473 1.00 18.38	Ö
ATOM	8800 N GLY C 291	52.218 87.919 95.525 1.00 19.53	N
ATOM	8802 CA GLY C 291	51.323 89.009 95.886 1.00 19.72	C
ATOM	8805 C GLY C 291	49.852 88.656 95.740 1.00 20.00	C
ATOM	8806 O GLY C 291	49.038 89.109 96.516 1.00 19.68	Ö
	8807 N PHE C 292	49.511 87.845 94.738 1.00 20.11	N
	8809 CA PHE C 292		C
	8811 CB PHE C 292	48.020 86.597 93.250 1.00 19.74	C
ATOM		46.603 86.360 92.821 1.00 18.39	C
ATOM		45.900 87.341 92.157 1.00 17.92	C
ATOM		44.579 87.142 91.817 1.00 17.58	C
	8819 CZ PHE C 292	43.960 85.950 92.128 1.00 16.95	
		44.657 84.976 92.776 1.00 15.96	С
	8821 CE2 PHE C 292		C
	8823 CD2 PHE C 292		C
	8825 C PHE C 292	47.458 86.946 95.661 1.00 20.36	C
ATOM	8826 O PHE C 292	46.442 87.449 96.083 1.00 20.37	0
ATOM	8827 N LEU C 293	48.026 85.891 96.234 1.00 21.32	N
ATOM	8829 CA LEU C 293		C
ATOM	8831 CB LEU C 293		C
ATOM			C
	8836 CD1 LEU C 293	48.479 81.475 96.968 1.00 21.14	C
	8840 CD2 LEU C 293	46.203 82.287 96.583 1.00 21.07	C
	8844 C LEU C 293	47.476 86.023 98.671 1.00 23.07	С
ATOM	8845 O LEU C 293	46.901 85.605 99.690 1.00 23.23	О
		48.204 87.149 98.633 1.00 24.35	N
		48.249 88.137 99.730 1.00 25.42	C
	8850 CB GLN C 294		С
	8853 CG GLN C 294		С
	8856 CD GLN C 294		C
	8857 OE1 GLN C 294	52.159 87.936 98.705 1.00 38.85	О
ATOM	8858 NE2 GLN C 294	51.576 86.564 100.433 1.00 36.90	N
	8861 C GLN C 294	46.944 88.916 99.799 1.00 24.88	C
ATOM	8862 O GLN C 294	46.451 89.156 100.878 1.00 25.51	Ο
ATOM	8863 N LEU C 295	46.407 89.322 98.651 1.00 24.46	N
ATOM	8865 CA LEU C 295	45.109 89.987 98.571 1.00 24.18	С
ATOM	8867 CB LEU C 295	44.701 90.228 97.101 1.00 24.14	C
ATOM	8870 CG LEU C 295	45.531 91.273 96.334 1.00 25.01	С
ATOM	8872 CD1 LEU C 295	45.279 91.235 94.831 1.00 25.31	С
ATOM	8876 CD2 LEU C 295	45.272 92.690 96.830 1.00 26.82	С
ATOM	8880 C LEU C 295	44.077 89.103 99.232 1.00 23.84	C
ATOM	8881 O LEU C 295	44.241 87.900 99.255 1.00 23.57	O
ATOM	8882 N GLY C 296	43.014 89.692 99.766 1.00 23.81	N

ATOM	8884	CA GLY C 296	41.932 88.918 100.359 1.00 24.24	С
ATOM	8887	C GLY C 296	41.176 88.180 99.282 1.00 24.60	С
ATOM	8888	O GLY C 296	41.317 88.516 98.141 1.00 25.20	0
ATOM	8889	N ARG C 297	40.382 87.178 99.616 1.00 25.29	N
ATOM	8891	CA ARG C 297	39.701 86.402 98.580 1.00 25.96	С
ATOM	8893	CB ARG C 297	38.886 85.236 99.167 1.00 26.96	C
ATOM	8896	CG ARG C 297	38.658 84.012 98.216 1.00 30.64	С
ATOM	8899	CD ARG C 297	38.116 82.739 98.985 1.00 36.42	C
ATOM	8902	NE ARG C 297	37.400 81.748 98.153 1.00 40.44	N
ATOM	8904	CZ ARG C 297	36.145 81.884 97.675 1.00 43.02	С
ATOM	8905	NH1 ARG C 297	35.423 82.984 97.920 1.00 43.84	N
ATOM	8908	NH2 ARG C 297	35.607 80.911 96.939 1.00 43.40	N
ATOM	8911	C ARG C 297	38.793 87.275 97.737 1.00 25.23	С
ATOM	8912	O ARG C 297	38.711 87.058 96.533 1.00 25.49	Ο
ATOM	8913	N GLU C 298	38.109 88.252 98.332 1.00 24.35	N
ATOM	8915	CA GLU C 298	37.149 89.043 97.548 1.00 23.70	C
ATOM	8917	CB GLU C 298	36.478 90.111 98.404 1.00 23.99	С
ATOM	8920	CG GLU C 298	35.483 89.554 99.418 1.00 26.24	C
ATOM	8923	CD GLU C 298	36.128 89.176 100.739 1.00 29.32	C
ATOM	8924	OE1 GLU C 298	37.249 89.667 100.996 1.00 30.46	O
ATOM	8925	OE2 GLU C 298	35.521 88.387 101.518 1.00 31.60	O
ATOM	8926	C GLU C 298	37.843 89.675 96.329 1.00 22.40	C
ATOM	8927	O GLU C 298	37.306 89.686 95.224 1.00 21.30	О
ATOM	8928	N ASP C 299	39.059 90.158 96.551 1.00 21.45	N
ATOM	8930	CA ASP C 299	39.857 90.796 95.517 1.00 21.01	C
ATOM	8932	CB ASP C 299	40.911 91.725 96.130 1.00 20.70	С
ATOM	8935	CG ASP C 299	40.315 93.056 96.599 1.00 21.37	C
ATOM	8936	OD1 ASP C 299	39.244 93.430 96.077 1.00 21.01	O
ATOM	8937	OD2 ASP C 299	40.827 93.789 97.487 1.00 22.23	O
ATOM	8938	C ASP C 299	40.497 89.803 94.561 1.00 20.83	С
ATOM	8939	O ASP C 299	40.613 90.085 93.372 1.00 21.04	Ο
ATOM	8940	N GLN C 300	40.904 88.648 95.055 1.00 20.50	N
ATOM	8942	CA GLN C 300	41.388 87.596 94.176 1.00 20.66	С
ATOM	8944	CB GLN C 300	41.731 86.315 94.970 1.00 20.16	С
ATOM	8947	CG GLN C 300	42.991 86.449 95.870 1.00 18.84	С
ATOM	8950	CD GLN C 300	43.195 85.243 96.745 1.00 16.77	С
ATOM	8951	OE1 GLN C 300	43.030 84.136 96.271 1.00 18.45	О
ATOM	8952	NE2 GLN C 300	43.543 85.442 98.014 1.00 13.14	N
ATOM	8955	C GLN C 300	40.331 87.313 93.094 1.00 21.42	С
ATOM	8956	O GLN C 300	40.639 87.268 91.886 1.00 21.43	Ο
ATOM	8957	N ILE C 301	39.090 87.163 93.540 1.00 21.90	N
ATOM	8959	CA ILE C 301	37.971 86.851 92.662 1.00 22.51	С
ATOM	8961	CB ILE C 301	36.708 86.448 93.504 1.00 22.67	C
ATOM	8963	CG1 ILE C 301	36.953 85.082 94.166 1.00 22.78	С
ATOM	8966	CD1 ILE C 301	36.086 84.819 95.338 1.00 22.78	С
ATOM	8970	CG2 ILE C 301	35.434 86.413 92.646 1.00 21.69	С
ATOM	8974	C ILE C 301	37.654 87.973 91.670 1.00 22.92	С
ATOM	8975	O ILE C 301	37.496 87.704 90.483 1.00 23.46	0

ATOM 8976 N ALA C 302 37.567 89.213 92.136 1.00 23.44 N ATOM 8978 CA ALA C 302 37.297 90.358 91.248 1.00 23.74 C ATOM 8980 CB ALA C 302 37.138 91.667 92.071 1.00 23.62 C ATOM 8984 C ALA C 302 38.393 90.525 90.165 1.00 24.17 ATOM 8985 O ALA C 302 38.090 90.652 88.972 1.00 24.10 0 ATOM 8986 N LEU C 303 39.664 90.517 90.589 1.00 24.48 N ATOM 8988 CA LEU C 303 40.801 90.572 89.664 1.00 24.40 ATOM 8990 CB LEU C 303 42.128 90.542 90.432 1.00 23.92 C ATOM 8993 CG LEU C 303 42.414 91.805 91.252 1.00 24.25 C ATOM 8995 CD1 LEU C 303 43.847 91.835 91.698 1.00 24.50 C ATOM 8999 CD2 LEU C 303 42.082 93.091 90.497 1.00 24.83 C ATOM 9003 C LEU C 303 40.764 89.470 88.593 1.00 24.94 C ATOM 9004 O LEUC 303 40.794 89.757 87.414 1.00 25.28 0 ATOM 9005 N LEUC 304 40.683 88.216 88.989 1.00 25.46 ATOM 9007 CA LEU C 304 40.559 87.137 88.007 1.00 26.09 C ATOM 9009 CB LEU C 304 40.622 85.767 88.704 1.00 26.51 ATOM 9012 CG LEU C 304 42.003 85.320 89.130 1.00 27.18 ATOM 9014 CD1 LEU C 304 41.980 83.863 89.418 1.00 28.09 \mathbf{C} ATOM 9018 CD2 LEU C 304 43.012 85.629 88.029 1.00 29.72 C ATOM 9022 C LEU C 304 39.281 87.195 87.177 1.00 25.82 C ATOM 9023 O LEUC 304 39.242 86.775 86.013 1.00 25.58 0 ATOM 9024 N LYS C 305 38.218 87.696 87.761 1.00 25.64 N ATOM 9026 CA LYS C 305 36.981 87.715 87.005 1.00 26.29 \mathbf{C} ATOM 9028 CB LYS C 305 35.813 88.203 87.881 1.00 26.84 ATOM 9031 CG LYS C 305 34.439 87.892 87.295 1.00 30.10 C ATOM 9034 CD LYS C 305 33.308 88.353 88.246 1.00 34.41 ATOM 9037 CE LYS C 305 31.984 88.662 87.500 1.00 35.16 ATOM 9040 NZ LYS C 305 30.803 88.364 88.382 1.00 36.56 N ATOM 9044 C LYS C 305 37.182 88.593 85.752 1.00 25.12 C ATOM 9045 O LYS C 305 36.856 88.214 84.648 1.00 23.92 0 ATOM 9046 N ALA C 306 37.767 89.761 85.964 1.00 24.83 N ATOM 9048 CA ALA C 306 37.904 90.763 84.933 1.00 24.69 C ATOM 9050 CB ALA C 306 38.142 92.079 85.587 1.00 24.53 C ATOM 9054 C ALA C 306 39.054 90.419 83.971 1.00 24.75 C ATOM 9055 O ALA C 306 38.947 90.612 82.759 1.00 24.53 0 ATOM 9056 N SER C 307 40.132 89.891 84.536 1.00 24.19 N ATOM 9058 CA SER C 307 41.307 89.510 83.797 1.00 24.60 C ATOM 9060 CB SER C 307 42.416 89.097 84.766 1.00 24.97 C ATOM 9063 OG SER C 307 43.144 90.243 85.182 1.00 29.53 0 ATOM 9065 C SER C 307 41.142 88.334 82.868 1.00 24.11 C ATOM 9066 O SER C 307 41.913 88.210 81.904 1.00 24.50 0 ATOM 9067 N THR C 308 40.216 87.428 83.179 1.00 22.90 N ATOM 9069 CA THR C 308 40.264 86.105 82.578 1.00 22.16 C ATOM 9071 CB THR C 308 39.182 85.214 83.140 1.00 22.11 ATOM 9073 OG1 THR C 308 39.520 84.866 84.471 1.00 22.43 0 ATOM 9075 CG2 THR C 308 39.183 83.857 82.474 1.00 22.57 C ATOM 9079 C THR C 308 40.153 86.169 81.076 1.00 21.89 C ATOM 9080 O THR C 308 40.914 85.513 80.355 1.00 21.92 0

ATOM	9081	N ILE C 309	39.208 86.954 80.592 1.00 21.40	N
ATOM	9083	CA ILE C 309	39.023 87.048 79.154 1.00 21.25	C
ATOM	9085	CB ILE C 309	37.712 87.774 78.822 1.00 20.90	С
ATOM	9087	CG1 ILE C 309	37.416 87.631 77.344 1.00 20.93	C
ATOM	9090	CD1 ILE C 309	37.472 86.250 76.858 1.00 21.61	С
ATOM	9094	CG2 ILE C 309	37.762 89.254 79.214 1.00 20.66	C
ATOM	9098	C ILE C 309	40.213 87.720 78.474 1.00 21.81	С
ATOM	9099	O ILE C 309	40.563 87.401 77.336 1.00 22.57	O
ATOM	9100	N GLU C 310	40.818 88.682 79.166 1.00 21.86	N
ATOM	9102	CA GLU C 310	41.905 89.450 78.600 1.00 20.98	С
ATOM	9104	CB GLU C 310	42.221 90.682 79.447 1.00 20.83	С
ATOM	9107	CG GLU C 310	41.015 91.617 79.538 1.00 20.94	С
ATOM	9110	CD GLUC 310	41.296 92.901 80.275 1.00 20.86	С
ATOM	9111	OE1 GLU C 310	42.476 93.127 80.564 1.00 21.98	O
			40.343 93.668 80.573 1.00 19.88	O
			43.058 88.523 78.491 1.00 20.63	С
ATOM	9114	O GLU C 310	43.712 88.509 77.469 1.00 21.17	0
ATOM	9115	N ILEC311	43.290 87.699 79.500 1.00 20.65	N
ATOM	9117	CA ILE C 311	44.471 86.830 79.474 1.00 20.84	C
			44.759 86.187 80.846 1.00 21.33	C
			45.413 87.194 81.797 1.00 21.11	C
			45.275 86.773 83.279 1.00 21.03	C
			45.691 84.973 80.742 1.00 22.06	C
			44.287 85.782 78.404 1.00 21.02	C
			45.278 85.423 77.777 1.00 21.65	Ō
			43.045 85.319 78.164 1.00 20.81	N
			42.738 84.365 77.068 1.00 20.33	С
			41.282 83.934 77.084 1.00 20.38	С
			40.907 83.010 78.244 1.00 22.03	C
			39.130 82.820 78.407 1.00 23.29	S
			39.092 81.695 79.650 1.00 26.02	C
			43.004 84.975 75.707 1.00 20.48	C
			43.417 84.277 74.774 1.00 20.46	O
		N LEU C 313	42.761 86.288 75.588 1.00 20.32	N
ATOM	9153	CA LEU C 313	43.016 87.002 74.349 1.00 19.95	C
ATOM	9155	CB LEU C 313	42.349 88.349 74.395 1.00 19.65	С
ATOM	9158	CG LEU C 313	40.838 88.317 74.231 1.00 20.60	С
ATOM	9160	CD1 LEU C 313	40.323 89.657 74.601 1.00 22.49	C
ATOM	9164	CD2 LEU C 313	40.421 88.043 72.809 1.00 22.11	C
		C LEU C 313	44.517 87.114 74.062 1.00 20.48	C
		O LEU C 313	44.970 86.986 72.910 1.00 19.41	0
		N LEU C 314	45.285 87.350 75.119 1.00 21.36	N
		CA LEU C 314	46.742 87.304 75.031 1.00 22.27	C
		CB LEU C 314	47.378 87.756 76.341 1.00 22.10	Č
		CG LEU C 314	48.051 89.097 76.593 1.00 22.13	Č
		CD1 LEU C 314	47.813 90.060 75.558 1.00 23.29	C
		CD2 LEU C 314	47.573 89.669 77.902 1.00 23.63	Č
		C LEU C 314	47.219 85.871 74.675 1.00 23.00	C
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ATOM 9188 O LEU C 314 47.987 85.708 73.731 1.00 23.62 0 ATOM 9189 N GLU C 315 46.781 84.842 75.403 1.00 23.38 N ATOM 9191 CA GLU C 315 47.194 83.441 75.088 1.00 23.93 C ATOM 9193 CB GLU C 315 46.679 82.410 76.120 1.00 24.28 ATOM 9196 CG GLU C 315 47.382 82.504 77.476 1.00 27.22 C ATOM 9199 CD GLU C 315 48.870 82.108 77.415 1.00 30.37 \mathbf{C} ATOM 9200 OE1 GLU C 315 49.186 81.092 76.775 1.00 32.39 0 ATOM 9201 OE2 GLU C 315 49.728 82.806 77.994 1.00 31.87 0 ATOM 9202 C GLU C 315 46.745 83.017 73.700 1.00 23.07 C ATOM 9203 O GLU C 315 47.485 82.353 73.000 1.00 23.02 0 ATOM 9204 N THR C 316 45.539 83.428 73.307 1.00 22.38 N ATOM 9206 CA THR C 316 45.020 83.212 71.946 1.00 21.67 C 43.589 83.855 71.857 1.00 21.88 ATOM 9208 CB THR C 316 ATOM 9210 OG1 THR C 316 42.615 83.046 72.539 1.00 20.43 0 ATOM 9212 CG2 THR C 316 43.091 83.941 70.394 1.00 22.37 C ATOM 9216 C THR C 316 45.982 83.859 70.889 1.00 20.90 C ATOM 9217 O THR C 316 46.480 83.209 69.976 1.00 19.95 \mathbf{O} ATOM 9218 N ALA C 317 46.228 85.148 71.048 1.00 20.05 N ATOM 9220 CA ALA C 317 47.092 85.868 70.168 1.00 20.00 C ATOM 9222 CB ALA C 317 47.249 87.275 70.678 1.00 20.45 \mathbf{C} ATOM 9226 C ALA C 317 48.438 85.175 70.092 1.00 20.26 C ATOM 9227 O ALA C 317 48.931 84.875 69.034 1.00 19.99 0 ATOM 9228 N ARG C 318 49.031 84.887 71.230 1.00 21.12 N ATOM 9230 CA ARG C 318 50.324 84.186 71.273 1.00 21.70 C 50.663 83.913 72.735 1.00 22.23 ATOM 9232 CB ARG C 318 C ATOM 9235 CG ARG C 318 51.943 83.198 73.021 1.00 24.76 C ATOM 9238 CD ARG C 318 51.980 82.735 74.441 1.00 29.47 C ATOM 9241 NE ARG C 318 53.328 82.767 74.979 1.00 34.52 N 53.625 83.006 76.263 1.00 38.26 ATOM 9243 CZ ARG C 318 \mathbf{C} ATOM 9244 NH1 ARG C 318 52.668 83.248 77.171 1.00 39.13 N 54.896 82.994 76.643 1.00 39.06 ATOM 9247 NH2 ARG C 318 N ATOM 9250 C ARG C 318 50.366 82.877 70.481 1.00 20.96 ATOM 9251 O ARG C 318 51.422 82.466 70.056 1.00 20.67 0 ATOM 9252 N ARG C 319 49.225 82.218 70.325 1.00 21.00 N 49.137 80.935 69.613 1.00 21.52 ATOM 9254 CA ARG C 319 \mathbf{C} ATOM 9256 CB ARG C 319 48.157 80.009 70.347 1.00 22.53 C ATOM 9259 CG ARG C 319 48.761 79.186 71.485 1.00 25.78 C ATOM 9262 CD ARG C 319 47.747 78.810 72.591 1.00 30.60 C ATOM 9265 NE ARG C 319 48.453 78.230 73.736 1.00 34.90 N ATOM 9267 CZ ARG C 319 49.208 78.920 74.610 1.00 36.03 C 49.361 80.244 74.516 1.00 35.20 ATOM 9268 NH1 ARG C 319 N ATOM 9271 NH2 ARG C 319 49.813 78.268 75.594 1.00 36.20 N ATOM 9274 C ARG C 319 48.661 81.085 68.167 1.00 20.46 C ATOM 9275 O ARG C 319 48.460 80.095 67.474 1.00 19.77 0 ATOM 9276 N TYR C 320 48.473 82.329 67.738 1.00 19.64 N ATOM 9278 CA TYR C 320 48.007 82.639 66.402 1.00 19.22 C ATOM 9280 CB TYR C 320 47.636 84.135 66.256 1.00 19.39 C ATOM 9283 CG TYR C 320 47.295 84.550 64.831 1.00 18.42

ATOM 9284 CD1 TYR C 320 46.083 84.202 64.253 1.00 17.75 C ATOM 9286 CE1 TYR C 320 45.786 84.575 62.960 1.00 17.76 C ATOM 9288 CZ TYR C 320 46.711 85.296 62.216 1.00 17.42 C ATOM 9289 OH TYR C 320 46.429 85.661 60.914 1.00 19.24 0 ATOM 9291 CE2 TYR C 320 47.910 85.644 62.766 1.00 16.45 C ATOM 9293 CD2 TYR C 320 48.196 85.271 64.064 1.00 17.01 C ATOM 9295 C TYR C 320 49.054 82.281 65.377 1.00 18.95 C ATOM 9296 O TYR C 320 50.175 82.733 65.450 1.00 18.89 0 ATOM 9297 N ASN C 321 48.659 81.474 64.407 1.00 18.89 N ATOM 9299 CA ASN C 321 49.521 81.088 63.325 1.00 18.85 C ATOM 9301 CB ASN C 321 49.367 79.594 63.116 1.00 19.14 C ATOM 9304 CG ASN C 321 50.275 79.065 62.041 1.00 19.83 C ATOM 9305 OD1 ASN C 321 51.307 78.491 62.336 1.00 23.90 0 ATOM 9306 ND2 ASN C 321 49.897 79.252 60.794 1.00 18.73 N ATOM 9309 C ASN C 321 49.134 81.863 62.063 1.00 18.64 C ATOM 9310 O ASN C 321 48.022 81.690 61.541 1.00 18.17 0 ATOM 9311 N HIS C 322 50.039 82.715 61.567 1.00 18.15 N ATOM 9313 CA HIS C 322 49.694 83.563 60.428 1.00 17.63 C ATOM 9315 CB HIS C 322 50.420 84.917 60.431 1.00 17.80 C ATOM 9318 CG HIS C 322 49.822 85.919 59.480 1.00 18.50 ATOM 9319 ND1 HIS C 322 48.561 86.452 59.653 1.00 18.45 ATOM 9321 CE1 HIS C 322 48.288 87.275 58.656 1.00 17.20 C ATOM 9323 NE2 HIS C 322 49.318 87.283 57.829 1.00 17.99 N ATOM 9325 CD2 HIS C 322 50.290 86.441 58.318 1.00 18.66 C ATOM 9327 C HIS C 322 49.871 82.858 59.102 1.00 16.73 C ATOM 9328 O HIS C 322 49.287 83.293 58.124 1.00 16.50 0 ATOM 9329 N GLUC 323 50.631 81.765 59.047 1.00 16.36 N ATOM 9331 CA GLU C 323 50.675 80.947 57.814 1.00 15.96 ATOM 9333 CB GLU C 323 51.686 79.810 57.935 1.00 16.08 C ATOM 9336 CG GLU C 323 51.782 78.979 56.657 1.00 18.17 C ATOM 9339 CD GLU C 323 52.870 77.917 56.678 1.00 19.03 \mathbf{C} ATOM 9340 OE1 GLU C 323 53.586 77.808 57.690 1.00 20.63 0 ATOM 9341 OE2 GLU C 323 52.994 77.177 55.683 1.00 18.53 0 ATOM 9342 C GLU C 323 49.284 80.384 57.421 1.00 15.03 C ATOM 9343 O GLUC 323 48.955 80.296 56.247 1.00 13.86 0 ATOM 9344 N THR C 324 48.483 80.055 58.431 1.00 14.77 N ATOM 9346 CA THR C 324 47.185 79.393 58.285 1.00 14.57 \mathbf{C} ATOM 9348 CB THR C 324 47.160 78.062 59.140 1.00 15.16 \mathbf{C} ATOM 9350 OG1 THR C 324 47.434 78.329 60.540 1.00 14.64 0 ATOM 9352 CG2 THR C 324 48.246 77.040 58.670 1.00 13.97 C ATOM 9356 C THR C 324 46.002 80.275 58.706 1.00 14.25 C ATOM 9357 O THR C 324 44.857 79.920 58.490 1.00 13.36 0 ATOM 9358 N GLUC 325 46.303 81.424 59.314 1.00 14.85 N ATOM 9360 CA GLU C 325 45.313 82.384 59.849 1.00 14.59 C ATOM 9362 CB GLU C 325 44.601 83.107 58.716 1.00 14.04 C ATOM 9365 CG GLU C 325 45.546 84.001 57.941 1.00 12.44 C ATOM 9368 CD GLU C 325 44.904 84.690 56.756 1.00 11.07 C ATOM 9369 OE1 GLU C 325 43.662 84.777 56.678 1.00 10.49

ATOM	9370 OE2 GLU C 325	45.663 85.167 55.899 1.00 9.70	0
	9371 C GLU C 325		C
	9372 O GLU C 325		0
	9373 N CYS C 326	44.942 80.990 61.760 1.00 16.63	N
ATOM	9375 CA CYS C 326	44.243 80.114 62.664 1.00 17.79	С
		44.515 78.680 62.252 1.00 17.93	С
		43.326 78.130 61.051 1.00 17.07	S
ATOM	9381 C CYS C 326	44.775 80.287 64.047 1.00 19.77	C
ATOM	9382 O CYS C 326	45.980 80.432 64.235 1.00 19.66	O
ATOM	9383 N ILE C 327	43.882 80.248 65.025 1.00 22.43	N
ATOM	9385 CA ILE C 327	44.283 80.131 66.423 1.00 24.44	С
ATOM	9387 CB ILE C 327	43.214 80.733 67.310 1.00 24.68	С
ATOM	9389 CG1 ILE C 327	43.197 82.250 67.068 1.00 24.44	С
ATOM	9392 CD1 ILE C 327	41.889 82.845 67.350 1.00 25.51	C
ATOM	9396 CG2 ILE C 327	43.473 80.370 68.786 1.00 25.12	С
ATOM	9400 C ILE C 327	44.547 78.676 66.782 1.00 26.15	C
ATOM	9401 O ILE C 327	43.727 77.792 66.522 1.00 25.84	O
ATOM	9402 N THR C 328	45.700 78.436 67.383 1.00 28.62	N
ATOM	9404 CA THR C 328	46.125 77.075 67.670 1.00 30.85	C
ATOM	9406 CB THR C 328	47.472 76.849 67.056 1.00 30.89	С
ATOM	9408 OG1 THR C 328	47.390 77.153 65.659 1.00 31.59	О
ATOM	9410 CG2 THR C 328	47.844 75.354 67.117 1.00 32.19	C
ATOM	9414 C THR C 328	46.170 76.770 69.161 1.00 32.50	C
ATOM	9415 O THR C 328	47.248 76.735 69.753 1.00 32.90	Ο
ATOM	9416 N PHE C 329	44.985 76.564 69.744 1.00 34.40	N
ATOM	9418 CA PHE C 329	44.814 76.137 71.136 1.00 35.56	C
ATOM	9420 CB PHE C 329	43.352 75.806 71.391 1.00 35.71	C
ATOM	9423 CG PHE C 329	42.971 75.773 72.846 1.00 37.29	С
ATOM	9424 CD1 PHE C 329	42.570 76.962 73.507 1.00 37.15	С
ATOM	9426 CE1 PHE C 329	42.181 76.942 74.852 1.00 36.69	C
ATOM	9428 CZ PHE C 329	42.198 75.713 75.564 1.00 38.22	C
ATOM	9430 CE2 PHE C 329	42.591 74.497 74.899 1.00 37.78	C
ATOM	9432 CD2 PHE C 329	42.963 74.542 73.552 1.00 37.96	С
ATOM	9434 C PHE C 329	45.677 74.915 71.484 1.00 36.59	C
ATOM	9435 O PHE C 329	46.287 74.893 72.570 1.00 37.17	Ο
ATOM	9436 N LEU C 330	45.742 73.920 70.582 1.00 37.22	N
ATOM	9438 CA LEU C 330	46.641 72.740 70.750 1.00 37.98	C
_	9440 CB LEU C 330	45.912 71.602 71.491 1.00 38.39	С
	9443 CG LEU C 330	46.350 71.300 72.931 1.00 40.08	C
	9445 CD1 LEU C 330	46.032 69.817 73.265 1.00 41.39	C
	9449 CD2 LEU C 330	47.845 71.598 73.186 1.00 40.84	C
	9453 C LEU C 330	47.203 72.192 69.425 1.00 37.69	С
	9454 O LEU C 330	46.727 72.554 68.360 1.00 38.18	О
	9455 N LYS C 331	48.196 71.315 69.475 1.00 37.13	N
	9457 CA LYS C 331	48.858 70.907 68.239 1.00 37.33	C
	9459 CB LYS C 331	49.680 69.630 68.419 1.00 37.85	С
		50.896 69.819 69.341 1.00 40.26	C
ATOM	9465 CD LYS C 331	51.977 68.724 69.159 1.00 41.77	C

ATOM	9468 CE LYS C 331	53.197 69.011 70.047 1.00 42.34	C
ATOM	9471 NZ LYS C 331	54.455 68.791 69.293 1.00 43.43	N
ATOM	9475 C LYS C 331	47.855 70.704 67.115 1.00 36.47	С
ATOM	9476 O LYS C 331	47.883 71.427 66.110 1.00 37.10	0
ATOM	9477 N ASP C 332	46.949 69.745 67.299 1.00 35.03	N
ATOM	9479 CA ASP C 332	45.984 69.368 66.254 1.00 33.52	С
ATOM	9481 CB ASP C 332	45.735 67.856 66.326 1.00 33.42	С
ATOM	9484 CG ASP C 332	46.732 67.060 65.491 1.00 34.07	С
ATOM	9485 OD1 ASP C 332	47.472 67.662 64.683 1.00 34.43	0
ATOM	9486 OD2 ASP C 332	46.839 65.818 65.570 1.00 34.73	0
ATOM	9487 C ASP C 332	44.637 70.143 66.278 1.00 32.00	С
ATOM	9488 O ASP C 332	43.746 69.892 65.450 1.00 31.91	0
ATOM	9489 N PHE C 333	44.494 71.074 67.220 1.00 29.78	N
ATOM	9491 CA PHE C 333	43.245 71.783 67.422 1.00 28.34	C
ATOM	9493 CB PHE C 333	42.837 71.697 68.901 1.00 28.83	C
ATOM	9496 CG PHE C 333	42.336 70.323 69.334 1.00 30.95	C
ATOM	9497 CD1 PHE C 333	43.156 69.199 69.239 1.00 33.57	C
ATOM	9499 CE1 PHE C 333	42.697 67.944 69.626 1.00 34.89	C
ATOM	9501 CZ PHE C 333	41.402 67.795 70.120 1.00 34.94	C
ATOM	9503 CE2 PHE C 333	40.583 68.899 70.229 1.00 33.86	C
ATOM	9505 CD2 PHE C 333	41.049 70.160 69.847 1.00 32.43	C
ATOM	9507 C PHE C 333	43.442 73.230 66.975 1.00 26.25	C
ATOM	9508 O PHE C 333	43.950 74.058 67.737 1.00 26.49	0
ATOM	9509 N THR C 334	43.075 73.530 65.731 1.00 23.74	N
ATOM	9511 CA THR C 334	43.211 74.886 65.189 1.00 22.15	C
ATOM	9513 CB THR C 334	44.198 74.916 64.022 1.00 22.27	С
ATOM	9515 OG1 THR C 334	43.789 73.981 63.020 1.00 21.35	О
ATOM	9517 CG2 THR C 334	45.565 74.443 64.465 1.00 22.71	C
ATOM	9521 C THR C 334	41.886 75.436 64.726 1.00 20.28	С
ATOM	9522 O THR C 334	41.008 74.690 64.383 1.00 19.63	Ο
ATOM	9523 N TYR C 335	41.756 76.747 64.698 1.00 18.82	N
ATOM	9525 CA TYR C 335	40.469 77.370 64.438 1.00 18.55	С
ATOM	9527 CB TYR C 335	39.742 77.682 65.767 1.00 18.56	C
ATOM	9530 CG TYR C 335	39.672 76.472 66.671 1.00 17.82	C
ATOM	9531 CD1 TYR C 335	40.650 76.239 67.630 1.00 16.61	С
ATOM	9533 CE1 TYR C 335	40.623 75.103 68.408 1.00 17.81	C
ATOM	9535 CZ TYR C 335	39.599 74.180 68.254 1.00 18.25	C
ATOM	9536 OH TYR C 335	39.563 73.050 69.046 1.00 20.01	0
ATOM	9538 CE2 TYR C 335	38.617 74.395 67.315 1.00 17.94	C
ATOM	9540 CD2 TYR C 335	38.663 75.536 66.524 1.00 17.44	С
ATOM	9542 C TYR C 335	40.662 78.638 63.589 1.00 18.47	С
ATOM	9543 O TYR C 335	41.312 79.595 64.018 1.00 17.98	0
ATOM	9544 N SER C 336	40.128 78.605 62.367 1.00 18.11	N
	9546 CA SER C 336	40.004 79.782 61.510 1.00 17.60	С
ATOM	9548 CB SER C 336	39.716 79.335 60.101 1.00 17.17	С
ATOM	9551 OG SER C 336	38.417 78.800 60.047 1.00 15.50	0
ATOM	9553 C SER C 336	38.858 80.707 61.946 1.00 17.92	C
ATOM	9554 O SER C 336	38.074 80.379 62.836 1.00 16.89	0

ATOM	9555	N LYS C 337	38.754 81.862 61.287 1.00 18.32	N
ATOM	9557	CA LYS C 337	37.671 82.797 61.567 1.00 18.74	С
ATOM	9559	CB LYS C 337	37.830 84.105 60.797 1.00 18.47	С
ATOM	9562	CG LYS C 337	38.992 84.958 61.264 1.00 18.53	С
ATOM	9565	CD LYS C 337	38.728 86.436 61.031 1.00 19.47	С
ATOM	9568	CE LYS C 337	38.523 86.799 59.561 1.00 19.94	С
ATOM	9571	NZ LYS C 337	38.656 88.274 59.301 1.00 18.41	N
ATOM	9575	C LYS C 337	36.357 82.134 61.216 1.00 19.74	C
ATOM	9576	O LYS C 337	35.384 82.253 61.955 1.00 20.66	Ο
ATOM	9577	N ASP C 338	36.338 81.416 60.096 1.00 20.62	N
ATOM	9579	CA ASP C 338	35.166 80.655 59.694 1.00 21.06	С
ATOM	9581	CB ASP C 338	35.441 79.845 58.417 1.00 21.54	C
ATOM	9584	CG ASP C 338	35.236 80.662 57.153 1.00 22.69	C
ATOM	9585	OD1 ASP C 338	34.782 81.831 57.239 1.00 22.27	0
ATOM	9586	OD2 ASP C 338	35.506 80.207 56.024 1.00 25.63	О
ATOM	9587	C ASP C 338	34.737 79.721 60.793 1.00 20.84	C
ATOM	9588	O ASP C 338	33.544 79.586 61.030 1.00 21.08	Ο
ATOM	9589	N ASP C 339	35.707 79.097 61.461 1.00 20.65	N
ATOM	9591	CA ASP C 339	35.430 78.135 62.535 1.00 20.49	C
ATOM	9593	CB ASP C 339	36.723 77.485 63.041 1.00 19.99	C
ATOM	9596	CG ASP C 339	37.270 76.474 62.079 1.00 18.52	C
ATOM	9597	OD1 ASP C 339	36.475 75.796 61.393 1.00 15.97	О
ATOM	9598	OD2 ASP C 339	38.486 76.284 61.943 1.00 18.05	O
ATOM	9599	C ASP C 339	34.693 78.768 63.692 1.00 20.76	C
ATOM	9600	O ASP C 339	33.751 78.203 64.230 1.00 20.00	О
ATOM	9601	N PHE C 340	35.125 79.962 64.054 1.00 21.96	N
ATOM	9603	CA PHE C 340	34.440 80.719 65.076 1.00 22.95	С
ATOM		CB PHE C 340		C
ATOM	9608	CG PHE C 340	36.399 81.828 66.277 1.00 22.95	С
ATOM	9609	CD1 PHE C 340	37.463 81.066 65.866 1.00 22.51	C
ATOM	9611	CE1 PHE C 340	38.588 80.952 66.633 1.00 22.57	C
		CZ PHE C 340		С
		CE2 PHE C 340		C
		CD2 PHE C 340	36.512 82.509 67.463 1.00 24.52	С
		C PHE C 340	33.045 81.064 64.569 1.00 23.67	C
		O PHE C 340	32.085 80.943 65.309 1.00 23.60	О
		N HIS C 341	32.926 81.492 63.317 1.00 24.91	N
		CA HIS C 341	31.612 81.819 62.786 1.00 26.47	С
		CB HIS C 341	31.638 82.334 61.337 1.00 26.86	C
		CG HIS C 341	30.262 82.414 60.746 1.00 30.78	С
		ND1 HIS C 341	29.302 83.287 61.224 1.00 33.90	N
		CE1 HIS C 341	28.168 83.091 60.568 1.00 36.37	C
		NE2 HIS C 341	28.347 82.102 59.702 1.00 36.36	N
		CD2 HIS C 341	29.643 81.651 59.805 1.00 34.80	C
		C HIS C 341	30.619 80.641 62.894 1.00 26.47	C
ATOM			29.454 80.848 63.254 1.00 26.40	0
			31.084 79.429 62.605 1.00 26.78	N
ATOM	9641	CA ARG C 342	30.240 78.241 62.639 1.00 27.49	С

ATOM	9643 CB ARG C 342	30.930 77.068 61.967 1.00 27.93	С
ATOM	9646 CG ARG C 342	31.042 77.195 60.478 1.00 29.90	C
ATOM	9649 CD ARG C 342	32.392 76.757 59.973 1.00 33.11	С
ATOM	9652 NE ARG C 342	32.473 76.765 58.516 1.00 35.74	N
ATOM	9654 CZ ARG C 342	33.545 76.392 57.827 1.00 37.80	С
ATOM	9655 NH1 ARG C 342	34.653 75.981 58.453 1.00 37.69	N
ATOM	9658 NH2 ARG C 342	33.509 76.426 56.499 1.00 39.32	N
ATOM	9661 C ARG C 342	29.887 77.821 64.043 1.00 27.39	С
ATOM	9662 O ARG C 342	28.925 77.116 64.239 1.00 28.16	0
ATOM	9663 N ALA C 343	30.688 78.225 65.013 1.00 27.43	N
ATOM	9665 CA ALA C 343	30.359 78.051 66.416 1.00 27.24	С
ATOM	9667 CB ALA C 343	31.608 78.221 67.263 1.00 27.10	С
ATOM	9671 C ALA C 343	29.286 79.029 66.882 1.00 27.37	C
ATOM	9672 O ALA C 343	28.997 79.068 68.078 1.00 27.62	Ο
ATOM	9673 N GLY C 344	28.704 79.802 65.951 1.00 27.38	N
ATOM	9675 CA GLY C 344	27.653 80.784 66.234 1.00 27.23	С
ATOM	9678 C GLY C 344	28.108 82.172 66.731 1.00 26.99	C
ATOM	9679 O GLY C 344	27.284 82.969 67.222 1.00 26.63	Ο
ATOM	9680 N LEU C 345	29.401 82.470 66.611 1.00 26.29	N
ATOM	9682 CA LEU C 345	29.920 83.761 67.043 1.00 26.05	C
ATOM	9684 CB LEU C 345	31.392 83.660 67.508 1.00 26.01	C
ATOM	9687 CG LEU C 345	31.793 82.508 68.452 1.00 27.03	C
ATOM	9689 CD1 LEU C 345	32.888 82.915 69.392 1.00 27.83	C
ATOM	9693 CD2 LEU C 345	30.637 82.014 69.280 1.00 29.12	С
ATOM	9697 C LEU C 345	29.740 84.821 65.945 1.00 25.74	C
ATOM	9698 O LEU C 345	29.797 84.531 64.753 1.00 24.32	О
ATOM	9699 N GLN C 346	29.483 86.043 66.412 1.00 26.61	N
ATOM	9701 CA GLN C 346	29.309 87.257 65.615 1.00 27.29	C
ATOM	9703 CB GLN C 346	28.979 88.441 66.520 1.00 27.75	C
ATOM	9706 CG GLN C 346	27.667 88.453 67.274 1.00 30.06	C
ATOM	9709 CD GLN C 346	27.621 89.629 68.287 1.00 32.70	C
	9710 OE1 GLN C 346		O
	9711 NE2 GLN C 346	28.725 89.863 69.011 1.00 30.49	N
	9714 C GLN C 346		С
	9715 O GLN C 346	•	О
	9716 N VAL C 347	30.494 88.319 63.809 1.00 26.94	N
	9718 CA VAL C 347	31.661 88.882 63.154 1.00 26.52	С
	9720 CB VAL C 347	31.260 89.348 61.746 1.00 26.83	С
	9722 CG1 VAL C 347	30.781 90.818 61.735 1.00 27.09	C
	9726 CG2 VAL C 347	32.382 89.108 60.821 1.00 27.86	C
	9730 C VAL C 347	32.316 90.021 63.968 1.00 25.70	С
	9731 O VAL C 347	33.523 90.192 63.948 1.00 24.79	O
	9732 N GLU C 348	31.500 90.766 64.707 1.00 25.23	N
	9734 CA GLU C 348	31.941 91.910 65.508 1.00 25.25	C
	9736 CB GLU C 348	30.718 92.610 .66.148 1.00 26.27	С
	9739 CG GLU C 348		С
		28.795 92.623 64.439 1.00 34.78	С
ATOM	9743 OE1 GLU C 348	28.748 91.364 64.556 1.00 35.05	0

ATOM	9744	OE2 GLU C 348	28.022 93.274 63.665 1.00 39.97	O
		C GLU C 348		С
		O GLU C 348		О
ATOM	9747	N PHE C 349	32.880 90.212 66.989 1.00 22.63	N
ATOM	9749	CA PHE C 349	33.822 89.626 67.948 1.00 21.44	C
ATOM	9751	CB PHE C 349	33.093 88.619 68.816 1.00 21.89	C
ATOM	9754	CG PHE C 349	33.898 88.062 69.936 1.00 22.89	C
ATOM	9755	CD1 PHE C 349	34.514 88.893 70.847 1.00 25.73	C
ATOM	9757	CE1 PHE C 349	35.239 88.354 71.906 1.00 27.78	C
ATOM	9759	CZ PHE C 349	35.320 86.979 72.058 1.00 26.52	C
ATOM	9761	CE2 PHE C 349	34.697 86.156 71.156 1.00 25.03	C
ATOM	9763	CD2 PHE C 349	33.995 86.692 70.105 1.00 23.88	C
ATOM	9765	C PHE C 349	34.934 88.910 67.215 1.00 20.23	C
ATOM	9766	O PHE C 349	36.089 89.139 67.494 1.00 19.56	O
ATOM	9767	N ILE C 350	34.587 88.073 66.244 1.00 18.88	N
ATOM	9769	CA ILE C 350	35.588 87.275 65.555 1.00 18.34	C
ATOM	9771	CB ILE C 350	34.919 86.374 64.501 1.00 18.48	C
ATOM	9773	CG1 ILE C 350	34.053 85.320 65.180 1.00 19.15	C
ATOM	9776	CD1 ILE C 350	32.929 84.839 64.286 1.00 20.67	C
ATOM	9780	CG2 ILE C 350	35.956 85.654 63.625 1.00 18.23	C
ATOM	9784	C ILE C 350	36.697 88.127 64.918 1.00 18.02	C
ATOM	9785	O ILE C 350	37.894 87.805 65.066 1.00 17.63	O
ATOM	9786	N ASN C 351	36.313 89.203 64.216 1.00 17.31	N
ATOM	9788	CA ASN C 351	37.284 89.993 63.470 1.00 16.76	C
ATOM	9790	CB ASN C 351	36.634 90.970 62.471 1.00 16.58	C
ATOM	9793	CG ASN C 351	36.193 90.299 61.157 1.00 15.21	C
ATOM	9794	OD1 ASN C 351	36.680 89.250 60.774 1.00 16.64	O
ATOM	9795	ND2 ASN C 351	35.265 90.923 60.478 1.00 12.76	N
ATOM	9798	C ASN C 351	38.251 90.703 64.415 1.00 17.01	C
ATOM	9799	O ASN C 351	39.428 90.591 64.211 1.00 17.64	O
			37.796 91.423 65.431 1.00 17.04	N.
			38.701 92.051 66.390 1.00 17.25	C
ATOM	9803	CB PRO C 352	37.734 92.660 67.386 1.00 17.51	С
ATOM	9806	CG PRO C 352	36.576 93.055 66.525 1.00 17.29	C
		CD PRO C 352	36.403 91.832 65.684 1.00 17.74	C
		C PRO C 352	39.662 91.131 67.120 1.00 17.55	C
		O PRO C 352	40.735 91.557 67.538 1.00 17.30	O
		N ILE C 353	39.280 89.878 67.285 1.00 17.86	N
		CA ILE C 353	40.121 88.908 67.973 1.00 18.08	C
		CB ILE C 353	39.344 87.642 68.260 1.00 18.73	С
		CG1 ILE C 353	38.612 87.745 69.557 1.00 19.43	С
			37.650 86.617 69.621 1.00 22.63	C
		CG2 ILE C 353	40.238 86.413 68.304 1.00 21.14	С
		C ILE C 353	41.223 88.565 67.044 1.00 17.44	C
ATOM			42.370 88.413 67.466 1.00 17.27	0
		N PHE C 354		N
			41.870 88.096 64.776 1.00 16.79	C
ATOM	9837	CB PHE C 354	41.295 87.430 63.524 1.00 16.89	С

ATOM	9840	CG PHE C 354	41.106 85.940 63.679 1.00 16.68	С
ATOM	9841	CD1 PHE C 354	40.077 85.443 64.458 1.00 16.83	С
ATOM	9843	CE1 PHE C 354	39.918 84.087 64.633 1.00 16.11	C
ATOM	9845	CZ PHE C 354	40.796 83.218 64.047 1.00 15.19	C
ATOM	9847	CE2 PHE C 354	41.834 83.694 63.291 1.00 14.88	C
ATOM	9849	CD2 PHE C 354	41.987 85.045 63.107 1.00 15.98	C
ATOM	9851	C PHE C 354	42.707 89.330 64.487 1.00 16.83	C
ATOM	9852	O PHE C 354	43.882 89.151 64.281 1.00 16.91	Ο
ATOM	9853	N GLU C 355	42.181 90.564 64.572 1.00 17.05	N
ATOM			43.042 91.758 64.341 1.00 18.14	C
ATOM	9857	CB GLU C 355	42.309 93.115 64.163 1.00 18.96	С
ATOM	9860	CG GLU C 355	40.898 92.929 63.605 1.00 24.73	C
			40.007 94.178 63.479 1.00 30.19	C
ATOM	9864	OE1 GLU C 355	38.932 94.030 62.795 1.00 29.35	O
ATOM		OE2 GLU C 355	40.334 95.245 64.099 1.00 32.39	0
ATOM		C GLU C 355	44.081 91.842 65.437 1.00 17.35	C
ATOM		O GLU C 355	45.256 91.877 65.147 1.00 17.04	О
		N PHE C 356	43.641 91.846 66.684 1.00 17.06	N
		CA PHE C 356	44.525 91.801 67.843 1.00 16.82	С
			43.693 91.488 69.083 1.00 17.28	C
			44.468 91.485 70.374 1.00 16.78	C
		CD1 PHE C 356	44.878 92.672 70.945 1.00 16.87	C
			45.563 92.700 72.131 1.00 17.87	C
		CZ PHE C 356	45.829 91.535 72.793 1.00 17.65	C
		CE2 PHE C 356	45.414 90.332 72.251 1.00 18.63	C
		CD2 PHE C 356	44.719 90.308 71.043 1.00 17.21	C
		C PHE C 356	45.573 90.722 67.714 1.00 17.34	C
ATOM			46.736 90.927 68.092 1.00 17.16	О
		N SER C 357		N
				C
			45.381 87.133 66.813 1.00 17.76	С
			44.418 86.873 67.825 1.00 18.50	О
		C SER C 357		С
		O SER C 357	48.396 88.587 66.474 1.00 15.52	О
		N ARG C 358	46.857 89.200 64.978 1.00 16.04	N
		CA ARG C 358	47.785 89.681 63.961 1.00 16.53	С
		CB ARG C 358	46.990 90.176 62.736 1.00 16.22	С
		CG ARG C 358	46.325 89.101 61.928 1.00 14.87	C
		CD ARG C 358	45.937 89.541 60.556 1.00 13.61	C
		NE ARG C 358	44.956 90.614 60.583 1.00 12.04	N
		CZ ARG C 358	43.667 90.450 60.802 1.00 11.62	С
		NH1 ARG C 358	43.133 89.263 61.004 1.00 11.73	N
		NH2 ARG C 358	42.890 91.500 60.809 1.00 13.12	N
		C ARG C 358	48.709 90.832 64.418 1.00 16.96	C
		O ARG C 358	49.835 90.921 63.974 1.00 16.47	0
		N ALA C 359	48.188 91.723 65.256 1.00 17.76	N
		CA ALA C 359	48.885 92.902 65.732 1.00 18.41	C
AIOM	9927	CB ALA C 359	47.897 93.908 66.291 1.00 18.54	С

ATOM	9931 C ALA C 359	49.861 92.495 66.803 1.00 19.75	С
ATOM	9932 O ALA C 359	51.016 92.878 66.741 1.00 20.24	Ο
ATOM	9933 N MET C 360	49.414 91.722 67.796 1.00 20.82	N
ATOM	9935 CA MET C 360	50.349 91.113 68.733 1.00 21.74	С
ATOM	9937 CB MET C 360	49.652 90.151 69.684 1.00 21.72	C
ATOM	9940 CG MET C 360	48.761 90.800 70.719 1.00 22.69	С
ATOM	9943 SD MET C 360	49.549 91.976 71.785 1.00 21.63	S
ATOM	9944 CE MET C 360	50.525 90.934 72.758 1.00 23.43	С
ATOM	9948 C MET C 360	51.503 90.375 68.024 1.00 22.40	С
ATOM	9949 O MET C 360	52.625 90.480 68.456 1.00 22.90	O
ATOM	9950 N ARG C 361	51.250 89.631 66.958 1.00 23.53	N
ATOM	9952 CA ARG C 361	52.334 88.893 66.281 1.00 24.93	C
ATOM	9954 CB ARG C 361	51.782 88.118 65.070 1.00 25.30	C
ATOM	9957 CG ARG C 361	52.811 87.720 64.015 1.00 27.27	C
ATOM	9960 CD ARG C 361	52.259 87.610 62.597 1.00 30.11	С
ATOM	9963 NE ARG C 361	53.023 86.632 61.823 1.00 32.45	N
ATOM	9965 CZ ARG C 361	53.432 86.776 60.556 1.00 35.21	C
ATOM	9966 NH1 ARG C 361	53.171 87.887 59.847 1.00 35.66	N
ATOM	9969 NH2 ARG C 361	54.118 85.778 59.985 1.00 35.46	N
ATOM	9972 C ARG C 361	53.459 89.842 65.846 1.00 25.31	С
ATOM	9973 O ARG C 361	54.644 89.539 65.988 1.00 24.75	Ο
ATOM	9974 N ARG C 362	53.021 90.985 65.315 1.00 26.30	N
ATOM	9976 CA ARG C 362	53.817 92.131 64.879 1.00 26.81	C
ATOM	9978 CB ARG C 362	52.835 93.250 64.461 1.00 27.31	C
ATOM	9981 CG ARG C 362	53.313 94.320 63.491 1.00 29.92	C
ATOM	9984 CD ARG C 362	52.162 95.097 62.825 1.00 31.82	C
ATOM	9987 NE ARG C 362	51.356 94.189 62.005 1.00 32.00	N
ATOM	9989 CZ ARG C 362	50.031 94.021 62.092 1.00 33.06	C
ATOM	9990 NH1 ARG C 362	49.277 94.722 62.947 1.00 31.56	N
ATOM	9993 NH2 ARG C 362	49.446 93.131 61.293 1.00 34.15	N
ATOM	9996 C ARG C 362	54.720 92.635 65.999 1.00 26.45	C
ATOM	9997 O ARG C 362	55.840 93.010 65.775 1.00 26.56	Ο
ATOM	9998 N LEUC 363	54.221 92.679 67.212 1.00 26.40	N
ATOM	10000 CA LEU C 363	55.085 93.001 68.330 1.00 26.69	C
ATOM	10002 CB LEU C 363	54.244 93.218 69.584 1.00 26.96	\mathbf{C}
ATOM	10005 CG LEU C 363	53.737 94.633 69.743 1.00 28.33	C
ATOM	10007 CD1 LEU C 363	52.958 94.712 71.029 1.00 28.19	C
ATOM	10011 CD2 LEU C 363	54.916 95.635 69.719 1.00 29.47	C
ATOM	10015 C LEU C 363	56.171 91.946 68.615 1.00 26.28	C
ATOM	10016 O LEU C 363	57.261 92.298 69.013 1.00 25.96	O
ATOM	10017 N GLY C 364	55.855 90.663 68.465 1.00 26.11	N
ATOM	10019 CA GLY C 364	56.816 89.605 68.701 1.00 26.12	C
ATOM	10022 C GLY C 364	57.326 89.551 70.130 1.00 26.28	C
ATOM	10023 O GLY C 364	58.530 89.636 70.369 1.00 26.55	0
ATOM	10024 N LEU C 365	56.419 89.412 71.090 1.00 26.35	N
ATOM	10026 CA LEU C 365	56.828 89.262 72.474 1.00 26.62	C
ATOM	10028 CB LEU C 365	55.649 89.451 73.420 1.00 26.84	C
ATOM	10031 CG LEU C 365	54.705 90.642 73.256 1.00 28.48	C

ATOM 10033 CD1 LEU C 36	5 53.735 90.730 74.471 1.00 29.09	С
ATOM 10037 CD2 LEU C 36	5 55.479 91.922 73.108 1.00 29.85	С
ATOM 10041 C LEU C 365	57.441 87.880 72.699 1.00 26.50	C
ATOM 10042 O LEU C 365	56.984 86.880 72.121 1.00 27.02	О
ATOM 10043 N ASP C 366	58.484 87.833 73.522 1.00 25.82	N
ATOM 10045 CA ASP C 366	59.014 86.572 74.008 1.00 25.54	. C
ATOM 10047 CB ASP C 366	60.530 86.662 74.223 1.00 25.31	C
ATOM 10050 CG ASP C 366	60.932 87.699 75.278 1.00 25.54	C
ATOM 10051 OD1 ASP C 36	6 60.092 88.049 76.140 1.00 27.00	О
ATOM 10052 OD2 ASP C 36	6 62.074 88.213 75.336 1.00 23.90	Ο
ATOM 10053 C ASP C 366	58.266 86.177 75.305 1.00 25.67	C
ATOM 10054 O ASP C 366	57.461 86.968 75.843 1.00 25.93	O
ATOM 10055 N ASP C 367	58.536 84.955 75.781 1.00 25.06	N
ATOM 10057 CA ASP C 367	57.934 84.386 77.001 1.00 24.68	С
ATOM 10059 CB ASP C 367	58.724 83.136 77.423 1.00 25.13	C
ATOM 10062 CG ASP C 367	58.631 81.996 76.418 1.00 26.28	C
ATOM 10063 OD1 ASP C 36	7 57.765 82.047 75.514 1.00 25.81	О
ATOM 10064 OD2 ASP C 36	7 59.406 81.004 76.474 1.00 28.52	О
ATOM 10065 C ASP C 367	57.883 85.320 78.229 1.00 24.10	C
ATOM 10066 O ASP C 367	56.903 85.306 79.024 1.00 22.49	Ο
ATOM 10067 N ALA C 368	58.984 86.075 78.387 1.00 23.55	N
ATOM 10069 CA ALA C 368	8 59.213 86.954 79.536 1.00 22.91	C
ATOM 10071 CB ALA C 368	8 60.619 87.492 79.502 1.00 23.06	C
ATOM 10075 C ALA C 368	58.231 88.094 79.517 1.00 22.31	C
ATOM 10076 O ALA C 368	57.646 88.446 80.546 1.00 22.06	Ο
ATOM 10077 N GLU C 369	58.051 88.643 78.316 1.00 21.69	N
ATOM 10079 CA GLU C 369	57.169 89.791 78.096 1.00 20.97	C
ATOM 10081 CB GLU C 369	57.463 90.435 76.731 1.00 20.89	C
ATOM 10084 CG GLU C 369	9 58.738 91.284 76.722 1.00 18.99	C
ATOM 10087 CD GLU C 369	9 59.372 91.484 75.342 1.00 17.52	C
ATOM 10088 OE1 GLU C 36	9 60.058 92.511 75.180 1.00 16.47	О
ATOM 10089 OE2 GLU C 36	9 59.221 90.641 74.421 1.00 16.36	О
ATOM 10090 C GLU C 369	55.698 89.409 78.238 1.00 20.50	C
ATOM 10091 O GLU C 369	54.925 90.171 78.803 1.00 20.24	Ο
ATOM 10092 N TYR C 370	55.320 88.232 77.760 1.00 19.94	N
ATOM 10094 CA TYR C 370	53.942 87.832 77.870 1.00 20.41	C
ATOM 10096 CB TYR C 370	53.689 86.539 77.102 1.00 20.54	C
ATOM 10099 CG TYR C 370	53.051 86.728 75.727 1.00 22.11	C
ATOM 10100 CD1 TYR C 37	0 53.750 86.401 74.574 1.00 23.49	C
ATOM 10102 CE1 TYR C 37	0 53.197 86.553 73.337 1.00 23.37	C
ATOM 10104 CZ TYR C 370	51.936 87.044 73.198 1.00 23.38	C
ATOM 10105 OH TYR C 370	0 51.445 87.167 71.918 1.00 25.78	O
ATOM 10107 CE2 TYR C 37	0 51.198 87.377 74.308 1.00 23.16	C
ATOM 10109 CD2 TYR C 37	0 51.758 87.211 75.578 1.00 22.69	C
ATOM 10111 C TYR C 370	53.567 87.675 79.349 1.00 20.55	C
ATOM 10112 O TYR C 370	52.550 88.157 79.804 1.00 20.68	Ο
ATOM 10113 N ALA C 371	54.424 87.028 80.115 1.00 21.01	N
ATOM 10115 CA ALA C 37	1 54.104 86.692 81.498 1.00 20.71	C

ATOM	10117	CB ALA C 371	55.123 85.737 82.021 1.00 21.09	С
ATOM	10121	C ALA C 371	54.044 87.915 82.379 1.00 20.62	С
ATOM	10122	O ALA C 371	53.217 88.003 83.295 1.00 19.75	O
ATOM	10123	N LEU C 372	54.937 88.851 82.080 1.00 20.82	N
ATOM	10125	CA LEU C 372	54.943 90.156 82.734 1.00 21.23	С
ATOM	10127	CB LEU C 372	56.238 90.934 82.400 1.00 21.20	С
ATOM	10130	CG LEU C 372	57.489 90.444 83.168 1.00 21.11	C
ATOM	10132	CD1 LEU C 372	58.749 91.065 82.616 1.00 20.65	С
ATOM	10136	CD2 LEU C 372	57.347 90.751 84.655 1.00 20.82	С
ATOM	10140	C LEU C 372	53.693 90.993 82.402 1.00 21.30	С
ATOM	10141	O LEU C 372	53.125 91.653 83.290 1.00 21.12	O
ATOM	10142	N LEU C 373	53.262 90.965 81.144 1.00 21.20	N
ATOM	10144	CA LEU C 373	52.045 91.684 80.741 1.00 21.46	С
ATOM	10146	CB LEU C 373	51.852 91.625 79.227 1.00 22.26	С
ATOM	10149	CG LEU C 373	51.785 92.881 78.364 1.00 23.82	С
ATOM	10151	CD1 LEU C 373	51.079 92.498 77.110 1.00 26.07	С
ATOM	10155	CD2 LEU C 373	51.069 94.022 79.018 1.00 25.10	C
ATOM	10159	C LEU C 373	50.810 91.068 81.405 1.00 20.82	C
ATOM	10160	O LEU C 373	49.889 91.782 81.801 1.00 20.56	О
ATOM	10161	N ILE C 374	50.804 89.741 81.538 1.00 20.35	N
ATOM	10163	CA ILE C 374	49.712 89.038 82.215 1.00 19.83	С
ATOM	10165	CB ILE C 374	49.837 87.504 82.026 1.00 19.67	C
ATOM	10167	CG1 ILE C 374	49.609 87.124 80.570 1.00 18.25	C
ATOM	10170	CD1 ILE C 374	50.070 85.805 80.239 1.00 17.91	C
ATOM	10174	CG2 ILE C 374	48.820 86.773 82.904 1.00 20.58	С
ATOM	10178	C ILE C 374	49.641 89.416 83.704 1.00 19.80	C
ATOM	10179	O ILE C 374	48.561 89.638 84.248 1.00 19.27	Ο
ATOM	10180	N ALA C 375	50.800 89.498 84.342 1.00 20.09	N
ATOM	10182	CA ALA C 375	50.885 89.850 85.749 1.00 20.49	С
ATOM	10184	CB ALA C 375	52.297 89.660 86.256 1.00 20.40	С
ATOM	10188	C ALA C 375	50.462 91.287 85.940 1.00 21.01	С
ATOM	10189	O ALA C 375	49.738 91.621 86.880 1.00 21.55	O
ATOM	10190	N ILE C 376	50.914 92.155 85.054 1.00 21.25	N
ATOM	10192	CA ILE C 376	50.487 93.540 85.147 1.00 21.75	C
ATOM	10194	CB ILE C 376	51.120 94.397 84.049 1.00 22.02	C
ATOM	10196	CG1 ILE C 376	52.633 94.584 84.325 1.00 22.83	С
ATOM	10199	CD1 ILE C 376	53.499 95.020 83.102 1.00 22.97	С
ATOM	10203	CG2 ILE C 376	50.356 95.720 83.927 1.00 21.74	C
ATOM	10207	C ILE C 376	48.977 93.573 85.021 1.00 22.03	С
ATOM	10208	O ILE C 376	48.306 94.274 85.780 1.00 22.24	O
ATOM	10209	N ASN C 377	48.462 92.805 84.053 1.00 22.18	N
ATOM	10211	CA ASN C 377	47.049 92.807 83.717 1.00 22.16	С
ATOM	10213	CB ASN C 377	46.792 91.894 82.512 1.00 22.34	C
ATOM	10216	CG ASN C 377	45.340 91.928 82.053 1.00 23.24	С
ATOM	10217	OD1 ASN C 377	44.487 91.235 82.624 1.00 25.25	0
ATOM	10218	ND2 ASN C 377	45.048 92.740 81.042 1.00 21.97	N
ATOM	10221	C ASN C 377	46.193 92.391 84.924 1.00 21.96	С
ATOM	10222	O ASN C 377	45.222 93.060 85.282 1.00 21.34	0

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ATOM	10223	N ILE C 378	46.581 91.282 85.551 1.00 22.24	N
ATOM	10225	CA ILE C 378	45.945 90.795 86.806 1.00 21.86	С
ATOM	10227	CB ILE C 378	46.760 89.582 87.339 1.00 21.27	С
ATOM	10229	CG1 ILE C 378	46.488 88.360 86.454 1.00 20.50	С
ATOM	10232	CD1 ILE C 378	47.527 87.185 86.593 1.00 21.01	С
			46.412 89.292 88.780 1.00 21.94	Č
			45.770 91.897 87.897 1.00 21.49	C
			44.687 92.096 88.433 1.00 19.66	Ö
			46.860 92.611 88.162 1.00 22.23	N
			46.946 93.623 89.217 1.00 22.96	C
			48.369 93.663 89.813 1.00 22.66	Č
			48.767 92.406 90.526 1.00 22.91	Č
			49.961 91.762 90.210 1.00 22.67	Č
			50.334 90.610 90.874 1.00 21.01	Č
			49.506 90.083 91.868 1.00 21.68	č
			48.324 90.701 92.207 1.00 21.90	C
		CD2 PHE C 379		C
		C PHE C 379		c
			47.210 95.997 88.972 1.00 22.51	O
			45.364 95.107 88.137 1.00 24.39	N
			44.842 96.390 87.709 1.00 25.22	C
			44.295 96.277 86.279 1.00 25.20	C
			45.187 95.547 85.453 1.00 23.22	o
		C SER C 380		C
		O SER C 380		0
			44.185 97.873 89.497 1.00 24.32	N
			43.428 98.348 90.671 1.00 28.01	C
			44.244 99.402 91.448 1.00 27.35	C
				C
			42.017 98.888 90.350 1.00 28.78	
-			41.168 98.986 91.254 1.00 29.19	0
			41.776 99.215 89.077 1.00 29.16	
			40.508 99.807 88.639 1.00 29.25	C
			40.801 100.771 87.516 1.00 29.43	C
		CG ASP C 382	41.288 100.069 86.275 1.00 31.79	C
		OD1 ASP C 382	41.958 98.995 86.392 1.00 30.62	0
		OD2 ASP C 382	41.037 100.543 85.138 1.00 35.14	0
-		C ASP C 382	39.430 98.812 88.170 1.00 28.95	C
		O ASP C 382	38.468 99.183 87.501 1.00 28.93	0
		N ARG C 383	39.564 97.544 88.525 1.00 28.77	N
		CA ARG C 383	38.525 96.593 88.169 1.00 28.43	C
		CB ARG C 383	39.021 95.163 88.360 1.00 28.28	C
		CG ARG C 383	40.236 94.829 87.593 1.00 26.97	C
		CD ARG C 383	40.026 94.899 86.117 1.00 26.28	C
		NE ARG C 383	41.162 94.299 85.408 1.00 24.87	N
		CZ ARG C 383	41.202 94.092 84.110 1.00 21.15	C
		NH1 ARG C 383		N
		NH2 ARG C 383		N
ATOM	10317	C ARG C 383	37.252 96.827 89.010 1.00 28.42	С

ATOM	10318	O ARG C 383	37.314 97.405 90.078 1.00 27.50	О
ATOM	10319	N PRO C 384	36.110 96.366 88.514 1.00 28.96	N
ATOM	10320	CA PRO C 384	34.869 96.341 89.284 1.00 29.32	C
ATOM	10322	CB PRO C 384	33.891 95.616 88.352 1.00 29.56	С
		CG PRO C 384		C
			35.923 95.836 87.151 1.00 29.25	Ċ
		C PRO C 384	34.970 95.550 90.589 1.00 29.67	C
		O PRO C 384	35.455 94.404 90.550 1.00 30.34	Ö
		N ASN C 385	34.516 96.172 91.693 1.00 29.15	N
			34.335 95.560 93.008 1.00 28.59	C
			33.388 94.351 92.926 1.00 28.55	Č
		CG ASN C 385		C
			31.364 95.552 92.631 1.00 30.01	0
			31.839 94.004 91.098 1.00 28.47	N
		C ASN C 385	35.616 95.178 93.716 1.00 28.24	C
		O ASN C 385	35.589 94.337 94.610 1.00 28.84	0
			36.733 95.785 93.331 1.00 27.80	N
			37.980 95.611 94.069 1.00 27.70	C
				C.
			39.226 96.083 93.300 1.00 27.91	
		CG1 VAL C 386	40.443 95.981 94.190 1.00 28.89	C
			39.447 95.278 92.003 1.00 28.00	C
		C VAL C 386	37.872 96.449 95.328 1.00 27.72	C
		O VALC 386	37.396 97.584 95.304 1.00 27.40	0
		N GLN C 387	38.330 95.875 96.431 1.00 27.89	N
			38.069 96.393 97.763 1.00 27.47	C
		CB GLN C 387		C
		CG GLN C 387		C
		CD GLN C 387		C
			34.297 95.612 98.873 1.00 34.44	О
			34.891 93.599 99.695 1.00 32.89	N
ATOM	10378	C GLN C 387	39.330 96.927 98.396 1.00 27.04	C
ATOM	10379	O GLN C 387	39.263 97.511 99.459 1.00 27.19	O
ATOM	10380	N GLU C 388	40.480 96.737 97.751 1.00 26.75	N
ATOM	10382	CA GLU C 388	41.737 97.323 98.223 1.00 26.26	С
ATOM	10384	CB GLU C 388	42.506 96.319 99.077 1.00 26.27	C
ATOM	10387	CG GLU C 388	41.810 95.953 100.373 1.00 25.93	C
ATOM	10390	CD GLU C 388	42.769 95.473 101.452 1.00 26.32	C
ATOM	10391	OE1 GLU C 388	43.187 94.301 101.395 1.00 23.97	О
ATOM	10392	OE2 GLU C 388	43.087 96.272 102.373 1.00 29.05	O
ATOM	10393	C GLU C 388	42.595 97.784 97.043 1.00 25.86	C
		O GLU C 388	43.712 97.281 96.851 1.00 25.49	O
		N PRO C 389	42.083 98.755 96.271 1.00 25.44	N
		CA PRO C 389	42.768 99.211 95.049 1.00 24.67	C
		CB PRO C 389	41.909 100.380 94.546 1.00 24.61	Č
		CG PRO C 389	40.898 100.661 95.599 1.00 24.99	Č
		CD PRO C 389	40.829 99.497 96.521 1.00 25.33	č
		C PRO C 389	44.194 99.649 95.335 1.00 24.23	c
		O PRO C 389	45.083 99.271 94.569 1.00 23.99	Ö
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ATOM	10409	N GLY C 390	44.404 100.414 96.412 1.00 23.99	N
ATOM	10411	CA GLY C 390	45.739 100.826 96.831 1.00 23.80	C
		C GLY C 390	46.722 99.671 96.832 1.00 24.09	C
		O GLY C 390	47.796 99.753 96.246 1.00 23.75	0
		N ARG C 391	46.337 98.576 97.478 1.00 24.84	N
		CA ARG C 391	47.178 97.384 97.546 1.00 25.72	C
		CB ARG C 391	46.579 96.341 98.490 1.00 26.51	Č
		CG ARG C 391	46.949 96.591 99.959 1.00 30.17	C
		CD ARG C 391	47.538 95.369 100.659 1.00 34.52	C
		NE ARG C 391	46.495 94.388 100.953 1.00 36.68	N
		CZ ARG C 391	46.659 93.070 100.918 1.00 39.33	C
		NH1 ARG C 391	47.843 92.531 100.612 1.00 40.62	N
		NH2 ARG C 391	45.626 92.278 101.197 1.00 40.10	N
		C ARG C 391	47.426 96.753 96.193 1.00 25.25	C
		O ARG C 391	48.568 96.446 95.869 1.00 25.05	Ö
		N VAL C 392	46.365 96.555 95.411 1.00 24.85	N
		CA VAL C 392	46.504 96.044 94.045 1.00 24.75	C
		CB VAL C 392	45.171 96.105 93.285 1.00 24.73	C
		CG1 VAL C 392	45.376 95.817 91.806 1.00 23.35	C
		CG2 VAL C 392	44.176 95.114 93.893 1.00 24.67	C
		C VAL C 392	47.594 96.800 93.260 1.00 25.28	_
		O VAL C 392		C
		N GLU C 393	48.486 96.195 92.641 1.00 25.15	0
			47.527 98.126 93.315 1.00 25.77	N
		CA GLU C 393	48.458 98.997 92.592 1.00 26.33	C
		CB GLU C 393	48.068 100.462 92.839 1.00 26.81	C
		CG GLU C 393	47.907 101.265 91.580 1.00 29.12	C
		CD GLU C 393	48.204 102.719 91.801 1.00 32.89	C
		OE1 GLU C 393	47.824 103.217 92.887 1.00 36.07	0
		OE2 GLU C 393	48.817 103.341 90.893 1.00 34.16	0
		C GLU C 393	49.938 98.785 92.989 1.00 25.88	C
		O GLU C 393		0
		N ALA C 394		N
		CA ALA C 394	51.535 98.356 94.792 1.00 25.26	C
		CB ALA C 394	51.568 98.419 96.330 1.00 24.81	C
		C ALA C 394	52.046 97.003 94.272 1.00 25.40	С
		O ALA C 394	53.207 96.873 93.849 1.00 25.34	O
		N LEU C 395	51.152 96.011 94.270 1.00 25.29	N
		CA LEU C 395	51.459 94.696 93.742 1.00 25.18	С
		CB LEU C 395	50.328 93.728 94.052 1.00 25.30	C
		CG LEU C 395	50.153 93.445 95.542 1.00 25.72	C
		CD1 LEU C 395	48.907 92.617 95.773 1.00 26.08	С
		CD2 LEU C 395	51.375 92.737 96.087 1.00 26.34	C
		C LEU C 395	51.724 94.739 92.241 1.00 25.03	C
		O LEU C 395	52.545 93.964 91.744 1.00 25.02	O
		N GLN C 396	51.076 95.663 91.525 1.00 24.61	N
		CA GLN C 396	51.314 95.794 90.085 1.00 24.35	C
		CB GLN C 396	50.236 96.645 89.422 1.00 24.23	C
ATOM	10507	CG GLN C 396	50.191 96.544 87.892 1.00 22.66	C

ATOM	10510	CD GLN C 396	49.352 97.620 87.265 1.00 22.51	C
ATOM	10511	OE1 GLN C 396	49.496 98.821 87.584 1.00 22.04	O
ATOM	10512	NE2 GLN C 396	48.466 97.212 86.371 1.00 23.29	N
ATOM	10515	C GLN C 396	52.666 96.407 89.785 1.00 24.63	С
		O GLN C 396	53.285 96.084 88.759 1.00 24.94	0
		N GLN C 397	53.106 97.279 90.694 1.00 24.56	N
		CA GLN C 397	54.235 98.155 90.467 1.00 24.62	С
		CB GLN C 397	54.475 99.059 91.687 1.00 25.20	Č
		CG GLN C 397	55.523 100.154 91.457 1.00 27.11	C
		CD GLN C 397	55.510 101.237 92.539 1.00 29.65	Č
		OE1 GLN C 397	56.566 101.650 93.029 1.00 31.23	Ō
			54.320 101.702 92.902 1.00 31.11	N
		C GLN C 397	55.510 97.425 90.056 1.00 23.90	C `
		O GLN C 397	56.024 97.754 89.006 1.00 24.00	Ö
		N PRO C 398	56.018 96.449 90.834 1.00 23.14	N
		CA PRO C 398	57.264 95.743 90.454 1.00 22.24	C
		CB PRO C 398	57.496 94.736 91.589 1.00 22.05	C
		CG PRO C 398	56.510 95.014 92.630 1.00 22.59	C
		CD PRO C 398	55.483 95.960 92.118 1.00 22.92	C
		C PRO C 398	57.210 95.022 89.098 1.00 21.53	c
		O PRO C 398	58.276 94.799 88.495 1.00 20.78	0
		N TYR C 399	56.006 94.678 88.628 1.00 20.65	N
		CA TYR C 399	55.868 94.012 87.342 1.00 20.43	C
			54.560 93.228 87.297 1.00 20.06	C
		CB TYR C 399		C
		CG TYR C 399	54.530 92.131 88.366 1.00 20.44	
		CD1 TYR C 399	53.732 92.251 89.492 1.00 21.47	C
		CE1 TYR C 399	53.706 91.269 90.477 1.00 20.71	C
		CZ TYR C 399	54.513 90.151 90.374 1.00 20.44	C
		OH TYR C 399	54.516 89.169 91.407 1.00 18.00	0
		CE2 TYR C 399	55.335 90.035 89.264 1.00 18.95	C
			55.344 91.013 88.281 1.00 18.85	C
		C TYR C 399	56.039 95.010 86.195 1.00 20.63	C
		O TYR C 399	56.743 94.746 85.211 1.00 20.36	0
		N VALC 400	55.444 96.184 86.349 1.00 20.87	N
		CA VAL C 400	55.680 97.285 85.412 1.00 21.27	C
-		CB VAL C 400	54.905 98.575 85.819 1.00 21.24	C
		CG1 VAL C 400	55.298 99.756 84.923 1.00 20.25	C
		CG2 VAL C 400	53.373 98.316 85.790 1.00 21.27	C
		C VALC 400	57.169 97.604 85.364 1.00 21.58	C
		O VAL C 400	57.742 97.744 84.283 1.00 21.31	O
		N GLU C 401	57.764 97.696 86.558 1.00 22.02	N
		CA GLU C 401	59.194 97.969 86.765 1.00 22.50	C
		CB GLU C 401	59.504 98.070 88.271 1.00 22.71	C
		CG GLU C 401	59.083 99.423 88.854 1.00 24.80	C
		CD GLU C 401	59.322 99.617 90.351 1.00 26.00	С
		OE1 GLU C 401	59.704 100.749 90.728 1.00 27.04	O
		OE2 GLU C 401	59.095 98.680 91.149 1.00 27.07	0
ATOM	10598	C GLU C 401	60.099 96.931 86.128 1.00 22.24	С

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ATOM 10599 O GLU C 401 61.151 97.252 85.569 1.00 22.01 0 ATOM 10600 N ALA C 402 59.674 95.679 86.225 1.00 22.23 N ATOM 10602 CA ALA C 402 60.413 94.587 85.632 1.00 21.76 C ATOM 10604 CB ALA C 402 59.864 93.279 86.097 1.00 21.70 C ATOM 10608 C ALA C 402 60.314 94.714 84.128 1.00 21.41 C ATOM 10609 O ALA C 402 61.321 94.663 83.449 1.00 21.22 0 ATOM 10610 N LEU C 403 59.102 94.919 83.625 1.00 21.25 N ATOM 10612 CA LEU C 403 58.863 94.974 82.192 1.00 21.39 C ATOM 10614 CB LEU C 403 57.370 95.078 81.942 1.00 21.10 C ATOM 10617 CG LEU C 403 56.973 95.033 80.473 1.00 21.04 C ATOM 10619 CD1 LEU C 403 57.618 93.868 79.759 1.00 21.23 C ATOM 10623 CD2 LEU C 403 55.471 94.964 80.370 1.00 21.60 \mathbf{C} 59.593 96.155 81.508 1.00 21.83 ATOM 10627 C LEU C 403 C ATOM 10628 O LEU C 403 60.208 96.012 80.451 1.00 21.24 0 ATOM 10629 N LEU C 404 59.507 97.323 82.118 1.00 22.53 N ATOM 10631 CA LEU C 404 60.217 98.482 81.642 1.00 23.54 C ATOM 10633 CB LEU C 404 60.033 99.618 82.642 1.00 23.92 C \mathbf{C} ATOM 10636 CG LEU C 404 60.917 100.858 82.554 1.00 25.19 ATOM 10638 CD1 LEU C 404 60.904 101.443 81.154 1.00 27.52 C ATOM 10642 CD2 LEU C 404 60.411 101.860 83.553 1.00 25.81 C ATOM 10646 C LEU C 404 61.686 98.129 81.484 1.00 24.32 C ATOM 10647 O LEU C 404 62.266 98.304 80.401 1.00 24.50 0 ATOM 10648 N SER C 405 62.264 97.610 82.573 1.00 25.23 N ATOM 10650 CA SER C 405 63.683 97.217 82.647 1.00 25.80 \mathbf{C} ATOM 10652 CB SER C 405 63.989 96.620 84.037 1.00 26.32 \mathbf{C} ATOM 10655 OG SER C 405 63.851 97.551 85.112 1.00 27.50 0 ATOM 10657 C SER C 405 64.093 96.188 81.569 1.00 25.70 C ATOM 10658 O SER C 405 65.128 96.317 80.915 1.00 25.38 0 ATOM 10659 N TYR C 406 63.262 95.170 81.399 1.00 25.90 N ATOM 10661 CA TYR C 406 63.587 94.041 80.545 1.00 26.24 C ATOM 10663 CB TYR C 406 62.589 92.906 80.769 1.00 25.52 C ATOM 10666 CG TYR C 406 62.786 91.683 79.898 1.00 24.35 C ATOM 10667 CD1 TYR C 406 63.429 90.548 80.382 1.00 24.04 C ATOM 10669 CE1 TYR C 406 63.586 89.422 79.584 1.00 22.32 C ATOM 10671 CZ TYR C 406 63.093 89.428 78.315 1.00 20.54 C 63.237 88.326 77.543 1.00 21.00 ATOM 10672 OH TYR C 406 0 ATOM 10674 CE2 TYR C 406 62.449 90.516 77.819 1.00 20.39 C ATOM 10676 CD2 TYR C 406 62.296 91.638 78.605 1.00 21.70 C ATOM 10678 C TYR C 406 63.621 94.467 79.082 1.00 27.56 C ATOM 10679 O TYR C 406 64.556 94.101 78.365 1.00 27.64 0 ATOM 10680 N THR C 407 62.614 95.239 78.656 1.00 29.01 N ATOM 10682 CA THR C 407 62.495 95.714 77.266 1.00 30.12 C ATOM 10684 CB THR C 407 61.170 96.471 77.044 1.00 29.66 C ATOM 10686 OG1 THR C 407 60.979 97.458 78.066 1.00 27.76 0 ATOM 10688 CG2 THR C 407 59,974 95.548 77.183 1.00 29.40 C ATOM 10692 C THR C 407 63.650 96.643 76.900 1.00 32.37 C ATOM 10693 O THR C 407 64.193 96.578 75.785 1.00 32.25 0 ATOM 10694 N ARG C 408 64.029 97.489 77.859 1.00 34.93 N

F	MOTA	10696	CA	ARG C 408	65.144 98.405 77.680 1.00 37.43	С
F	MOTA	10698	CB	ARG C 408	65.228 99.405 78.845 1.00 37.99	C
A	MOTA	10701	CG	3 ARG C 408	64.875 100.860 78.411 1.00 40.93	С
A	MOTA	10704	CD	ARG C 408	65.857 101.952 78.909 1.00 44.75	С
A	MOTA	10707	NE	ARG C 408	65.166 103.150 79.413 1.00 48.25	N
A	MOTA	10709	CZ	ARG C 408	64.328 103.186 80.468 1.00 50.24	С
A	MOTA	10710	NE	11 ARG C 408	8 64.050 102.084 81.167 1.00 51.53	N
A	MOTA	10713	NE	I2 ARG C 408	8 63.761 104.338 80.829 1.00 50.42	N
A	MOTA	10716	C	ARG C 408	66.472 97.656 77.487 1.00 38.95	С
A	MOTA	10717	0	ARG C 408	67.464 98.246 77.036 1.00 38.99	0
A	MOTA	10718	N	ILE C 409	66.469 96.363 77.844 1.00 40.77	N
A	MOTA	10720	CA	ILE C 409	67.505 95.391 77.447 1.00 41.64	C
A	MOTA	10722	CB	ILE C 409	67.941 94.592 78.681 1.00 41.57	C
A	MOTA	10724	CG	1 ILE C 409	68.996 95.419 79.458 1.00 41.47	C
Α	MOTA	10727	CD	1 ILE C 409	68.633 95.819 80.891 1.00 40.71	C
A	MOT	10731	CG	2 ILE C 409	68.462 93.204 78.282 1.00 41.94	C
A	MOT	10735	C	ILE C 409	67.124 94.508 76.203 1.00 42.62	C
A	MOTA	10736	0	ILE C 409	67.655 94.771 75.127 1.00 42.69	0
A	MOT	10737	N	LYS C 410	66.235 93.507 76.304 1.00 43.56	N
A	MOTA	10739	CA	LYS C 410	65.826 92.736 75.101 1.00 44.44	C
A	MOTA	10741	CB	LYS C 410	64.316 92.360 75.087 1.00 44.79	C
A	MOT	10744	CG	LYS C 410	63.734 92.042 73.657 1.00 44.91	C
A	MOT	10747	CD	LYS C 410	62.604 91.015 73.645 1.00 44.67	C
A	MOT	10750	CE	LYS C 410	62.061 90.789 72.233 1.00 44.52	C
A	MOT	10753	NZ	LYS C 410	61.779 89.348 71.938 1.00 44.64	N
A	MOT	10757	C	LYS C 410	66.179 93.500 73.814 1.00 44.90	C
A	MOT	10758	0	LYS C 410	67.136 93.128 73.119 1.00 45.15	O
A	MOT	10759	N	ARG C 411	65.407 94.547 73.494 1.00 45.25	N
A	MOT	10761	CA	ARG C 411	65.760 95.467 72.394 1.00 45.54	С
A	MOT	10763	CB	ARG C 411	64.745 95.430 71.223 1.00 45.91	C
A	MOT	10766	CG	ARG C 411	64.244 94.020 70.836 1.00 47.88	С
A	MOT	10769	CD	ARG C 411	63.762 93.849 69.363 1.00 50.08	С
A	MOT	10772	NE	ARG C 411	62.572 92.977 69.270 1.00 51.85	N
A	MOT	10774	CZ	ARG C 411	61.801 92.834 68.182 1.00 52.30	С
A	MOT	10775	NH	11 ARG C 411	62.081 93.503 67.058 1.00 51.46	N
A	MOT	10778	NH	2 ARG C 411	60.740 92.014 68.221 1.00 51.88	N
A	MOT	10781	C	ARG C 411	65.895 96.879 72.989 1.00 44.58	C
Α	MOT	10782	0	ARG C 411	64.907 97.516 73.337 1.00 44.52	0
A	MOT	10783	N	PRO C 412	67.118 97.353 73.146 1.00 43.52	N
A	MOT	10784	CA	PRO C 412	67.335 98.711 73.656 1.00 42.85	С
Α	MOT	10786	CB	PRO C 412	68.805 98.683 74.111 1.00 43.05	C
A	MOT	10789	CG	PRO C 412	69.259 97.234 73.954 1.00 43.40	С
Α	MOT	10792	CD	PRO C 412	68.390 96.661 72.874 1.00 43.60	С
A	MOT	10795	C	PRO C 412	67.115 99.809 72.599 1.00 41.83	C
A	MOT	10796	0	PRO C 412	66.999 100.982 72.974 1.00 41.57	0
A	MOT	10797	N	GLN C 413	67.063 99.434 71.317 1.00 40.57	N
A	TOM	10799	CA	GLN C 413	66.860 100.396 70.224 1.00 39.64	C
A	MOT	10801	CB	GLN C 413	67.788 100.061 69.050 1.00 39.85	С

ATOM	10804	CG GLN C 413	69.160 100.752 69.130 1.00 40.39	С
ATOM	10807	CD GLN C 413	70.065 100.359 67.981 1.00 41.42	C
ATOM	10808	OE1 GLN C 413	70.388 101.181 67.112 1.00 41.02	O
		NE2 GLN C 413	70.463 99.089 67.961 1.00 42.51	N
		C GLN C 413	65.394 100.517 69.745 1.00 38.41	Ċ
		O GLN C 413	65.066 101.360 68.918 1.00 38.15	Ö
		N ASP C 414	64.517 99.678 70.269 1.00 37.13	N
		CA ASP C 414	63.091 99.851 70.068 1.00 36.31	C
		CB ASP C 414	62.430 98.498 69.769 1.00 36.47	Č
		CG ASP C 414	60.990 98.624 69.258 1.00 36.99	Č
		OD1 ASP C 414	60.686 99.568 68.493 1.00 36.52	O
		OD2 ASP C 414	60.094 97.791 69.556 1.00 39.00	0
		C ASP C 414	62.533 100.505 71.335 1.00 35.41	C
		O ASP C 414	61.839 99.879 72.131 1.00 35.23	Ö
		N GLN C 415	62.872 101.776 71.522 1.00 34.39	N
		CA GLN C 415	62.339 102.570 72.629 1.00 33.63	C
		CB GLN C 415	62.682 104.044 72.436 1.00 33.86	C
		CG GLN C 415	62.339 104.583 71.048 1.00 35.40	C
		CD GLN C 415	62.266 106.094 71.022 1.00 38.18	C
		OE1 GLN C 415	62.561 106.742 72.048 1.00 39.96	
			61.875 106.672 69.860 1.00 36.76	0
		NE2 GLN C 415		N
		C GLN C 415	60.832 102.451 72.799 1.00 32.52	C
		O GLN C 415	60.351 102.422 73.927 1.00 32.48	0
		N LEU C 416	60.100 102.362 71.683 1.00 31.46	N
		CA LEU C 416	58.622 102.381 71.682 1.00 30.61	C
		CB LEU C 416	58.084 102.868 70.329 1.00 30.36	C
		CG LEU C 416	58.189 104.381 70.082 1.00 30.01	C
			57.722 104.728 68.657 1.00 29.67	C
			57.417 105.197 71.141 1.00 28.54	C
		C LEU C 416	57.962 101.053 72.001 1.00 30.03	C
			56.763 100.887 71.787 1.00 29.86	0
			58.745 100.120 72.530 1.00 29.46	N
			58.312 98.747 72.691 1.00 28.84	C
		CB ARG C 417	59.532 97.849 72.832 1.00 29.00	C
		CG ARG C 417	59.152 96.410 72.839 1.00 30.27	C
		CD ARG C 417	60.296 95.455 72.695 1.00 30.86	C
		NE ARG C 417	59.780 94.091 72.736 1.00 30.70	N
		CZ ARG C 417	59.188 93.482 71.728 1.00 29.97	С
		NH1 ARG C 417	59.039 94.098 70.562 1.00 30.02	N
ATOM	10881	NH2 ARG C 417	58.759 92.243 71.884 1.00 29.81	N
ATOM	10884	C ARG C 417	57.446 98.640 73.935 1.00 27.85	С
ATOM	10885	O ARG C 417	56.313 98.169 73.891 1.00 27.41	Ο
		N PHE C 418	58.001 99.090 75.050 1.00 26.77	N
		CA PHE C 418	57.244 99.151 76.292 1.00 26.02	C
		CB PHE C 418	58.124 99.790 77.366 1.00 26.07	C
ATOM	10893	CG PHE C 418	57.465 99.951 78.695 1.00 26.71	C
ATOM	10894	CD1 PHE C 418	56.972 98.859 79.379 1.00 28.37	C
ATOM	10896	CE1 PHE C 418	56.381 99.019 80.637 1.00 28.78	C

ΔΤΟΜ	10898	C7 PHF C 418	56.311 100.272 81.214 1.00 28.66	С
			56.797 101.363 80.532 1.00 28.52	C
			57.376 101.200 79.288 1.00 28.05	Č
		C PHE C 418	55.865 99.856 76.101 1.00 24.94	С
			54.833 99.207 76.253 1.00 24.89	Ö
			55.829 101.136 75.726 1.00 23.51	N
			54.547 101.788 75.485 1.00 22.93	C
			54.936 103.158 74.911 1.00 22.79	Č
			56.367 103.140 74.728 1.00 22.59	Č
			56.955 102.053 75.499 1.00 23.02	Č
		C PRO C 419	53.657 101.003 74.512 1.00 22.59	C
			52.470 100.964 74.739 1.00 21.78	Ö
			54.204 100.364 73.489 1.00 22.69	N
			53.374 99.531 72.612 1.00 23.38	C
			54.168 98.976 71.439 1.00 23.63	Č
			54.203 99.911 70.269 1.00 26.56	Č
			55.015 99.395 69.093 1.00 30.48	Č
		NE ARG C 420	55.047 100.353 67.994 1.00 31.76	N
		CZ ARG C 420		C
			57.327 100.526 68.022 1.00 37.26	N
		NH2 ARG C 420		N
		C ARG C 420		C
		O ARG C 420		0
			53.427 97.613 74.123 1.00 22.82	N
			52.833 96.546 74.923 1.00 23.10	С
			53.911 95.828 75.737 1.00 23.53	C
			54.814 94.952 74.908 1.00 24.77	C
		SD MET C 421		S
			55.712 93.498 76.830 1.00 30.07	С
ATOM	10959	C MET C 421	51.756 97.005 75.914 1.00 22.88	С
ATOM	10960	O MET C 421	50.753 96.313 76.104 1.00 22.80	О
ATOM	10961	N LEU C 422	51.977 98.132 76.583 1.00 22.36	N
ATOM	10963	CA LEU C 422	51.009 98.616 77.541 1.00 22.39	С
ATOM	10965	CB LEU C 422	51.574 99.783 78.335 1.00 23.02	C
ATOM	10968	CG LEU C 422	52.762 99.540 79.273 1.00 23.86	С
ATOM	10970	CD1 LEU C 422	53.371 100.881 79.647 1.00 24.96	C
ATOM	10974	CD2 LEU C 422	52.356 98.814 80.491 1.00 23.97	C
ATOM	10978	C LEU C 422	49.721 99.053 76.849 1.00 22.31	С
ATOM	10979	O LEU C 422	48.625 98.900 77.408 1.00 22.34	О
ATOM	10980	N MET C 423	49.850 99.605 75.641 1.00 21.88	N
ATOM	10982	CA MET C 423	48.697 100.067 74.869 1.00 21.52	С
ATOM	10984	CB MET C 423	49.110 100.766 73.558 1.00 22.01	С
ATOM	10987	CG MET C 423	49.774 102.117 73.701 1.00 24.76	C
ATOM	10990	SD MET C 423	48.657 103.496 74.017 1.00 31.13	S
ATOM	10991	CE MET C 423	48.560 103.343 75.702 1.00 33.55	C
ATOM	10995	C MET C 423	47.827 98.884 74.539 1.00 20.24	C
ATOM	10996	O MET C 423	46.648 99.035 74.349 1.00 19.37	0
ATOM	10997	N LYS C 424	48.413 97.705 74.440 1.00 19.65	N

ATOM 10999 CA LYS C 424 47.597 96.507 74.262 1.00 20.04 C ATOM 11001 CB LYS C 424 48.463 95.272 73.967 1.00 20.40 C ATOM 11004 CG LYS C 424 49.280 95.397 72.697 1.00 20.67 C ATOM 11007 CD LYS C 424 48.381 95.612 71.561 1.00 23.11 C ATOM 11010 CE LYS C 424 49.066 95.450 70.262 1.00 25.92 C ATOM 11013 NZ LYS C 424 48.621 96.506 69.295 1.00 27.86 N ATOM 11017 C LYS C 424 46.643 96.245 75.439 1.00 19.40 ATOM 11018 O LYS C 424 45.559 95.758 75.216 1.00 19.42 0 ATOM 11019 N LEU C 425 47.035 96.569 76.664 1.00 18.89 N ATOM 11021 CA LEU C 425 46.104 96.544 77.786 1.00 19.22 C ATOM 11023 CB LEU C 425 46.748 97.006 79.113 1.00 19.39 C ATOM 11026 CG LEU C 425 48.042 96.310 79.577 1.00 20.01 C ATOM 11028 CD1 LEU C 425 48.628 96.958 80.790 1.00 20.39 \mathbf{C} ATOM 11032 CD2 LEU C 425 47.800 94.848 79.833 1.00 20.80 \mathbf{C} ATOM 11036 C LEU C 425 44.901 97.422 77.495 1.00 19.35 C ATOM 11037 O LEU C 425 43.777 97.057 77.841 1.00 20.43 0 ATOM 11038 N VAL C 426 45.114 98.581 76.877 1.00 18.93 N ATOM 11040 CA VAL C 426 43.998 99.449 76.508 1.00 18.25 C ATOM 11042 CB VAL C 426 44.463 100.753 75.869 1.00 17.72 C ATOM 11044 CG1 VAL C 426 43.305 101.664 75.634 1.00 17.87 C ATOM 11048 CG2 VAL C 426 45.431 101.441 76.728 1.00 17.62 C ATOM 11052 C VAL C 426 43.060 98.702 75.544 1.00 18.59 C ATOM 11053 O VAL C 426 41.866 98.691 75.740 1.00 18.88 0 ATOM 11054 N SER C 427 43.589 98.055 74.522 1.00 18.98 N ATOM 11056 CA SER C 427 42.762 97.244 73.626 1.00 19.96 C ATOM 11058 CB SER C 427 43.615 96.702 72.494 1.00 20.17 C ATOM 11061 OG SER C 427 44.168 97.785 71.753 1.00 23.61 0 ATOM 11063 C SER C 427 42.054 96.068 74.305 1.00 20.13 C ATOM 11064 O SER C 427 40.925 95.759 73.969 1.00 20.62 0 ATOM 11065 N LEU C 428 42.718 95.405 75.249 1.00 20.31 N ATOM 11067 CA LEU C 428 42.133 94.265 75.939 1.00 20.50 C ATOM 11069 CB LEU C 428 43.143 93.575 76.818 1.00 20.04 C ATOM 11072 CG LEU C 428 44.127 92.748 75.990 1.00 20.36 C ATOM 11074 CD1 LEU C 428 45.361 92.391 76.836 1.00 20.66 C ATOM 11078 CD2 LEU C 428 43.481 91.488 75.392 1.00 19.60 C ATOM 11082 C LEU C 428 40.932 94.658 76.778 1.00 21.54 C ATOM 11083 O LEU C 428 40.072 93.821 77.048 1.00 22.14 0 ATOM 11084 N ARG C 429 40.836 95.929 77.155 1.00 22.26 ATOM 11086 CA ARG C 429 39.649 96.408 77.855 1.00 22.80 C ATOM 11088 CB ARG C 429 39.888 97.775 78.466 1.00 22.76 C ATOM 11091 CG ARG C 429 40.774 97.734 79.595 1.00 22.71 C ATOM 11094 CD ARG C 429 40.192 97.040 80.807 1.00 22.42 \mathbf{C} ATOM 11097 NE ARG C 429 41.209 97.025 81.856 1.00 21.48 N ATOM 11099 CZ ARG C 429 41.181 97.742 82.964 1.00 18.67 C ATOM 11100 NH1 ARG C 429 40.154 98.517 83.256 1.00 18.19 N ATOM 11103 NH2 ARG C 429 42.184 97.631 83.811 1.00 19.10 N ATOM 11106 C ARG C 429 38.472 96.516 76.929 1.00 23.20 C ATOM 11107 O ARG C 429 37.347 96.174 77.309 1.00 24.13 0

ATOM 11108 N THR C 430 38.708 97.050 75.741 1.00 23.13 N ATOM 11110 CA THR C 430 37.625 97.177 74.792 1.00 23.58 C ATOM 11112 CB THR C 430 38.035 98.089 73.602 1.00 24.17 C ATOM 11114 OG1 THR C 430 38.077 99.451 74.041 1.00 24.20 0 ATOM 11116 CG2 THR C 430 36.957 98.078 72.485 1.00 24.77 C ATOM 11120 C THR C 430 37.213 95.773 74.332 1.00 23.10 C ATOM 11121 O THR C 430 36.038 95.475 74.228 1.00 22.85 0 ATOM 11122 N LEU C 431 38.178 94.896 74.095 1.00 22.68 N ATOM 11124 CA LEU C 431 37.847 93.547 73.642 1.00 22.67 C ATOM 11126 CB LEU C 431 39.108 92.776 73.221 1.00 22.51 C ATOM 11129 CG LEU C 431 39.777 93.235 71.926 1.00 21.41 C ATOM 11131 CD1 LEU C 431 41.229 92.866 71.902 1.00 20.87 C ATOM 11135 CD2 LEU C 431 39.119 92.608 70.753 1.00 22.33 C ATOM 11139 C LEU C 431 37.040 92.784 74.710 1.00 22.32 C ATOM 11140 O LEU C 431 36.163 92.006 74.381 1.00 21.48 0 ATOM 11141 N SER C 432 37.320 93.048 75.977 1.00 22.37 N ATOM 11143 CA SER C 432 36.553 92.468 77.084 1.00 22.86 C ATOM 11145 CB SER C 432 37.152 92.941 78.409 1.00 22.68 C ATOM 11148 OG SER C 432 36.399 92.501 79.500 1.00 24.39 0 ATOM 11150 C SER C 432 35.060 92.824 76.994 1.00 22.96 C ATOM 11151 O SER C 432 34.193 91.959 77.149 1.00 22.80 0 ATOM 11152 N SER C 433 34.775 94.095 76.727 1.00 23.08 N ATOM 11154 CA SER C 433 33.417 94.548 76.439 1.00 23.57 \mathbf{C} ATOM 11156 CB SER C 433 33.391 96.032 76.104 1.00 23.61 C ATOM 11159 OG SER C 433 33.570 96.801 77.267 1.00 27.21 0 ATOM 11161 C SER C 433 32.809 93.845 75.263 1.00 23.69 C ATOM 11162 O SER C 433 31.679 93.410 75.333 1.00 24.17 O ATOM 11163 N VAL C 434 33.543 93.770 74.158 1.00 23.72 N ATOM 11165 CA VAL C 434 33.012 93.189 72.947 1.00 23.55 C ATOM 11167 CB VAL C 434 34.014 93.293 71.790 1.00 23.82 C ATOM 11169 CG1 VAL C 434 33.522 92.577 70.549 1.00 24.73 \mathbf{C} ATOM 11173 CG2 VAL C 434 34.210 94.724 71.434 1.00 23.97 C ATOM 11177 C VAL C 434 32.630 91.752 73.247 1.00 23.22 C ATOM 11178 O VALC 434 31.640 91.258 72.725 1.00 23.33 0 ATOM 11179 N HIS C 435 33.381 91.105 74.134 1.00 23.17 N ATOM 11181 CA HIS C 435 33.095 89.722 74.541 1.00 23.00 C ATOM 11183 CB HIS C 435 34.271 89.100 75.309 1.00 22.54 C ATOM 11186 CG HIS C 435 33.997 87.712 75.770 1.00 21.09 \mathbf{C} ATOM 11187 ND1 HIS C 435 33.873 87.382 77.097 1.00 20.17 N ATOM 11189 CE1 HIS C 435 33.587 86.100 77.207 1.00 20.60 C ATOM 11191 NE2 HIS C 435 33.481 85.596 75.995 1.00 21.20 N ATOM 11193 CD2 HIS C 435 33.732 86.585 75.078 1.00 21.14 C ATOM 11195 C HIS C 435 31.795 89.622 75.358 1.00 23.30 C ATOM 11196 O HIS C 435 30.950 88.751 75.106 1.00 23.08 0 ATOM 11197 N SER C 436 31.624 90.523 76.313 1.00 23.61 N ATOM 11199 CA SER C 436 30.348 90.644 77.026 1.00 24.19 \mathbf{C} ATOM 11201 CB SER C 436 30.412 91.801 78.033 1.00 23.96 C ATOM 11204 OG SER C 436 31.376 91.512 79.061 1.00 25.95

ATOM 11206 C SER C 436 29.137 90.794 76.086 1.00 24.55 C ATOM 11207 O SER C 436 28.107 90.189 76.304 1.00 24.85 0 ATOM 11208 N GLU C 437 29.270 91.566 75.018 1.00 25.17 N ATOM 11210 CA GLU C 437 28.182 91.721 74.060 1.00 25.38 C ATOM 11212 CB GLU C 437 28.445 92.896 73.113 1.00 26.09 C ATOM 11215 CG GLU C 437 28.585 94.242 73.846 1.00 29.84 C ATOM 11218 CD GLU C 437 C 29.059 95.406 72.951 1.00 35.02 ATOM 11219 OE1 GLU C 437 28.537 96.536 73.136 1.00 38.26 O ATOM 11220 OE2 GLU C 437 29.945 95.214 72.065 1.00 37.73 0 ATOM 11221 C GLU C 437 27.946 90.439 73.280 1.00 24.04 ATOM 11222 O GLU C 437 26.836 90.146 72.933 1.00 24.34 0 ATOM 11223 N GLN C 438 28.991 89.682 73.011 1.00 23.03 ATOM 11225 CA GLN C 438 28.870 88.392 72.345 1.00 22.31 C ATOM 11227 CB GLN C 438 30.260 87.855 72.023 1.00 22.24 C ATOM 11230 CG GLN C 438 30.306 86.428 71.474 1.00 21.39 C ATOM 11233 CD GLN C 438 29.680 86.321 70.112 1.00 21.22 C ATOM 11234 OE1 GLN C 438 30.380 86.346 69.096 1.00 21.68 0 28.363 86.200 70.077 1.00 20.20 ATOM 11235 NE2 GLN C 438 N ATOM 11238 C GLN C 438 28.170 87.374 73.209 1.00 22.57 C ATOM 11239 O GLN C 438 27.448 86.542 72.707 1.00 22.01 0 28.427 87.425 74.514 1.00 23.28 ATOM 11240 N VAL C 439 N ATOM 11242 CA VAL C 439 27.872 86.477 75.476 1.00 23.42 C ATOM 11244 CB VAL C 439 28.555 86.642 76.880 1.00 23.00 C ATOM 11246 CG1 VAL C 439 27.799 85.909 77.962 1.00 22.05 C ATOM 11250 CG2 VAL C 439 29.994 86.150 76.831 1.00 22.25 C ATOM 11254 C VAL C 439 26.369 86.703 75.560 1.00 24.45 C ATOM 11255 O VAL C 439 25.580 85.759 75.508 1.00 24.80 0 ATOM 11256 N PHE C 440 25.996 87.972 75.683 1.00 25.55 N ATOM 11258 CA PHE C 440 24.601 88.411 75.700 1.00 26.37 C ATOM 11260 CB PHE C 440 24.529 89.929 75.994 1.00 26.69 C C ATOM 11263 CG PHE C 440 23.247 90.599 75.550 1.00 29.64 ATOM 11264 CD1 PHE C 440 22.212 90.846 76.475 1.00 31.80 \mathbf{C} ATOM 11266 CE1 PHE C 440 21.032 91.452 76.082 1.00 31.89 C 20.858 91.834 74.742 1.00 33.13 ATOM 11268 CZ PHE C 440 C ATOM 11270 CE2 PHE C 440 21.869 91.605 73.808 1.00 32.53 C ATOM 11272 CD2 PHE C 440 23.072 91.000 74.217 1.00 31.85 \mathbf{C} ATOM 11274 C PHE C 440 23.925 88.041 74.378 1.00 26.30 C ATOM 11275 O PHE C 440 22.802 87.550 74.383 1.00 26.75 0 ATOM 11276 N ALA C 441 24.602 88.260 73.256 1.00 26.40 N ATOM 11278 CA ALA C 441 24.084 87.849 71.937 1.00 26.57 C ATOM 11280 CB ALA C 441 25.089 88.169 70.814 1.00 26.19 C ATOM 11284 C ALA C 441 23.737 86.366 71.910 1.00 26.95 C ATOM 11285 O ALA C 441 22.739 85.974 71.341 1.00 27.04 0 ATOM 11286 N LEU C 442 24.563 85.553 72.548 1.00 27.68 N ATOM 11288 CA LEU C 442 24.405 84.115 72.513 1.00 28.09 C ATOM 11290 CB LEU C 442 25.705 83.446 72.953 1.00 28.18 C ATOM 11293 CG LEU C 442 26.805 83.488 71.897 1.00 27.85 C ATOM 11295 CD1 LEU C 442 28.176 83.211 72.498 1.00 26.93 \mathbf{C}

ATOM	11299	CD2 LEU C 442	26.486 82.474 70.801 1.00 29.66	С
ATOM	11303	C LEU C 442	23.246 83.654 73.383 1.00 28.80	С
ATOM	11304	O LEU C 442	22.641 82.644 73.101 1.00 28.43	0
ATOM	11305	N ARG C 443	22.943 84.404 74.436 1.00 30.18	N
ATOM	11307	CA ARG C 443	21.785 84.137 75.303 1.00 31.15	С
ATOM	11309	CB ARG C 443	21.807 85.082 76.515 1.00 31.37	C
ATOM	11312	CG ARG C 443	23.031 84.919 77.410 1.00 33.62	С
ATOM	11315	CD ARG C 443	22.787 85.087 78.902 1.00 36.68	С
ATOM	11318	NE ARG C 443	21.711 84.218 79.389 1.00 38.98	N
ATOM	11320	CZ ARG C 443	21.560 83.799 80.649 1.00 40.80	C
ATOM	11321	NH1 ARG C 443	22.414 84.141 81.614 1.00 41.65	N
ATOM	11324	NH2 ARG C 443	20.527 83.023 80.944 1.00 41.03	N
ATOM	11327	C ARG C 443	20.461 84.303 74.550 1.00 31.48	C
ATOM	11328	O ARG C 443	19.476 83.632 74.832 1.00 31.71	0
ATOM	11329	N LEU C 444	20.440 85.216 73.593 1.00 32.22	N
ATOM	11331	CA LEU C 444	19.275 85.391 72.735 1.00 32.49	C
ATOM	11333	CB LEU C 444	19.263 86.791 72.088 1.00 32.71	C
ATOM	11336	CG LEU C 444	19.608 88.050 72.915 1.00 33.52	C
ATOM	11338	CD1 LEU C 444	19.703 89.258 71.979 1.00 33.88	C
\boldsymbol{ATOM}	11342	CD2 LEU C 444	18.645 88.336 74.081 1.00 33.13	C
ATOM	11346	C LEU C 444	19.174 84.304 71.650 1.00 32.21	C
\boldsymbol{ATOM}	11347	O LEU C 444	18.157 84.220 71.011 1.00 32.73	0
ATOM	11348	N GLN C 445	20.207 83.495 71.422 1.00 32.00	N
ATOM	11350	CA GLN C 445	20.088 82.295 70.574 1.00 32.03	C
ATOM	11352	CB GLN C 445	21.333 82.109 69.714 1.00 32.11	C
ATOM	11355	CG GLN C 445	21.583 83.152 68.654 1.00 32.95	C
ATOM	11358	CD GLN C 445	23.080 83.312 68.378 1.00 35.56	C
ATOM	11359	OE1 GLN C 445	23.633 84.409 68.550 1.00 37.57	0
ATOM	11360	NE2 GLN C 445	23.747 82.212 67.993 1.00 35.16	N
ATOM	11363	C GLN C 445	19.881 81.006 71.400 1.00 32.02	C
ATOM	11364	O GLN C 445	20.138 79.892 70.920 1.00 31.71	0
ATOM	11365	N ASP C 446	19.411 81.174 72.637 1.00 32.13	N
ATOM	11367	CA ASP C 446	19.342 80.111 73.653 1.00 32.17	C
ATOM	11369	CB ASP C 446	18.143 79.189 73.380 1.00 32.55	C
ATOM	11372	CG ASP C 446	16.862 79.694 74.031 1.00 34.14	C
ATOM	11373	OD1 ASP C 446	16.670 80.933 74.083 1.00 35.83	0
ATOM	11374	OD2 ASP C 446	15.992 78.929 74.510 1.00 35.63	0
ATOM	11375	C ASP C 446	20.627 79.286 73.866 1.00 31.43	C
ATOM	11376	O ASP C 446	20.552 78.140 74.286 1.00 32.15	0
ATOM	11377	N LYS C 447	21.793 79.869 73.592 1.00 30.34	N
ATOM	11379	CA LYS C 447	23.091 79.250 73.891 1.00 29.31	C
ATOM	11381	CB LYS C 447	24.023 79.305 72.675 1.00 29.61	C
ATOM	11384	CG LYS C 447	23.320 78.828 71.384 1.00 32.16	C
ATOM	11387	CD LYS C 447	24.207 77.982 70.451 1.00 34.89	С
ATOM	11390	CE LYS C 447	24.630 78.733 69.176 1.00 35.99	C
ATOM	11393	NZ LYS C 447	26.113 78.642 68.909 1.00 36.81	N
ATOM	11397	C LYS C 447	23.687 79.970 75.089 1.00 27.49	C
ATOM	11398	O LYS C 447	24.207 81.067 74.960 1.00 26.86	Ο

ATOM	11399	N LYS C 448	23.566 79.337 76.260 1.00 25.77	N
ATOM	11401	CA LYS C 448	23.990 79.901 77.547 1.00 24.04	C
		CB LYS C 448	22.863 79.739 78.584 1.00 24.27	Č
ATOM	11406	CG LYS C 448	21.498 80.363 78.155 1.00 25.53	Č
		CD LYS C 448	20.343 80.087 79.162 1.00 26.43	Č
		CE LYS C 448	18.949 79.916 78.473 1.00 26.81	Č
		NZ LYS C 448	17.814 79.670 79.440 1.00 25.41	N
		C LYS C 448	25.278 79.239 78.044 1.00 21.92	C
		O LYS C 448	25.595 78.115 77.704 1.00 21.75	0
		N LEU C 449	26.031 79.947 78.857 1.00 19.78	N
		CA LEU C 449	27.305 79.422 79.319 1.00 18.23	C
		CB LEU C 449	28.199 80.556 79.849 1.00 18.32	Č
		CG LEU C 449	28.668 81.644 78.858 1.00 18.67	Č
			29.337 82.783 79.629 1.00 20.33	C
		CD2 LEU C 449	29.635 81.123 77.812 1.00 18.73	Č
		C LEU C 449	27.085 78.365 80.390 1.00 16.30	c
		O LEU C 449	26.057 78.370 81.055 1.00 16.20	Ö
		N PRO C 450	28.045 77.461 80.551 1.00 14.39	N
		CA PRO C 450	28.007 76.492 81.634 1.00 13.54	C
		CB PRO C 450	28.971 75.405 81.153 1.00 13.19	Č
		CG PRO C 450	29.946 76.115 80.341 1.00 13.88	Č
		CD PRO C 450	29.242 77.273 79.717 1.00 14.55	Č
		C PRO C 450	28.494 77.134 82.922 1.00 13.00	C
		O PRO C 450	29.233 78.116 82.862 1.00 12.36	Ō
		N PRO C 451	28.119 76.569 84.064 1.00 12.74	N
		CA PRO C 451	28.390 77.181 85.377 1.00 13.15	C
		CB PRO C 451	28.197 76.012 86.336 1.00 12.67	C
		CG PRO C 451	27.162 75.186 85.671 1.00 12.39	C
		CD PRO C 451	27.439 75.269 84.197 1.00 12.16	С
		C PRO C 451	29.772 77.833 85.611 1.00 14.02	C
		O PRO C 451	29.823 78.916 86.195 1.00 13.72	O
ATOM	11468	N LEU C 452	30.867 77.208 85.183 1.00 14.95	N
ATOM	11470	CA LEU C 452	32.181 77.737 85.516 1.00 15.64	С
		CB LEU C 452		C
ATOM	11475	CG LEU C 452	34.560 77.001 86.002 1.00 19.48	С
ATOM	11477	CD1 LEU C 452	34.435 76.290 87.347 1.00 21.20	C
ATOM	11481	CD2 LEU C 452	35.849 76.582 85.298 1.00 21.90	C
ATOM	11485	C LEU C 452	32.454 79.050 84.810 1.00 15.44	С
ATOM	11486	O LEU C 452	33.200 79.885 85.315 1.00 15.20	Ο
ATOM	11487	N LEU C 453	31.882 79.190 83.618 1.00 15.57	N
ATOM	11489	CA LEU C 453	32.088 80.352 82.774 1.00 15.79	C
ATOM	11491	CB LEU C 453	32.095 79.949 81.291 1.00 15.70	С
ATOM	11494	CG LEU C 453	33.186 78.997 80.762 1.00 14.82	C
ATOM	11496	CD1 LEU C 453	33.164 78.838 79.217 1.00 14.87	C
ATOM	11500	CD2 LEU C 453	34.546 79.476 81.193 1.00 15.29	C
ATOM	11504	C LEU C 453	31.000 81.371 83.009 1.00 16.75	C
ATOM	11505	O LEU C 453	31.170 82.565 82.744 1.00 16.28	0
ATOM	11506	N SER C 454	29.864 80.893 83.497 1.00 18.15	N

ATOM	11508	CA SER C 454	28.758 81.777 83.832 1.00 19.00	С
		CB SER C 454	27.495 80.975 84.056 1.00 18.44	С
ATOM	11513	OG SER C 454	26.560 81.783 84.708 1.00 18.44	0
ATOM	11515	C SER C 454	29.094 82.637 85.065 1.00 20.30	C
		O SER C 454	28.771 83.825 85.101 1.00 20.38	Ō
		N GLU C 455	29.771 82.055 86.057 1.00 21.99	N
		CA GLU C 455		C
		CB GLU C 455	31.020 81.935 88.193 1.00 24.37	Č
		CG GLU C 455	31.392 82.607 89.521 1.00 27.84	C
		CD GLU C 455		C
		OE1 GLU C 455		o
		OE2 GLU C 455		ő
		C GLU C 455	30.993 84.008 86.802 1.00 23.44	c
		O GLU C 455		. 0
		N ILE C 456	31.910 83.788 85.866 1.00 24.06	N
		CA ILE C 456	32.804 84.853 85.416 1.00 24.51	C
		CB ILE C 456		C
		CG1 ILE C 456	34.763 83.221 85.304 1.00 25.39	
				C C
		CD1 ILE C 456	35.648 82.435 84.325 1.00 26.47 34.976 85.449 84.402 1.00 26.30	C
		CG2 ILE C 456		
		C ILE C 456	32.103 85.903 84.571 1.00 24.01	C
		O ILE C 456	32.354 87.069 84.791 1.00 24.09	0
		N TRP C 457	31.239 85.491 83.634 1.00 23.70	N
		CA TRP C 457		C
		CB TRP C 457		C
		CG TRP C 457	32.702 85.571 80.944 1.00 21.92	C
		CD1 TRP C 457		С
		NEI TRP C 457		N
		CE2 TRP C 457		C
		CD2 TRP C 457		C
		CE3 TRP C 457	33.021 83.361 79.577 1.00 21.81	C
		CZ3 TRP C 457	33.995 82.561 78.984 1.00 20.80	C
		CH2 TRP C 457	35.342 82.912 79.050 1.00 22.02	С
		CZ2 TRP C 457	35.752 84.054 79.706 1.00 21.84	C
		C TRP C 457	29.383 86.772 82.376 1.00 24.59	С
		O TRP C 457	29.107 87.719 81.658 1.00 25.61	О
ATOM	11575	N ASP C 458	28.440 86.136 83.051 1.00 25.15	N
ATOM	11577	CA ASP C 458	27.042 86.483 82.822 1.00 25.63	C
ATOM	11579	CB ASP C 458	26.113 85.302 83.133 1.00 25.67	C
ATOM	11582	CG ASP C 458	26.092 84.253 82.027 1.00 25.36	C
ATOM	11583	OD1 ASP C 458	25.897 84.555 80.820 1.00 24.47	О
ATOM	11584	OD2 ASP C 458	26.240 83.062 82.305 1.00 26.12	О
ATOM	11585	C ASP C 458	26.676 87.673 83.676 1.00 26.06	C
ATOM	11586	O ASP C 458	27.023 87.696 84.848 1.00 27.02	O
ATOM	11587	O13 444 C 500	39.286 80.254 75.403 1.00 48.16	0
ATOM	11588	S12 444 C 500	39.775 80.845 74.203 1.00 46.50	S
		O14 444 C 500	41.215 81.038 74.217 1.00 48.57	0
		C01 444 C 500	39.451 79.745 72.851 1.00 48.48	С

ATOM 11591 C02 444 C	500 40.471 79.528 71.857 1.00 50.39	C
ATOM 11593 C03 444 C	500 40.204 78.677 70.760 1.00 51.15	C
ATOM 11595 C04 444 C	500 38.934 78.063 70.652 1.00 51.42	C
ATOM 11597 C05 444 C	500 37.927 78.301 71.643 1.00 51.23	C
ATOM 11599 C06 444 C	500 38.173 79.156 72.744 1.00 49.18	C
ATOM 11601 N15 444 C	2 500 38.849 82.286 73.738 1.00 37.44	N
ATOM 11602 C16 444 C	500 39.244 82.987 72.414 1.00 34.73	С
ATOM 11605 C19 444 C	500 39.453 84.483 72.598 1.00 33.95	С
ATOM 11606 F22 444 C	500 39.958 85.057 71.481 1.00 32.52	F
ATOM 11607 F21 444 C		F
ATOM 11608 F20 444 C		F
ATOM 11609 C23 444 C		С
ATOM 11610 C24 444 C		С
ATOM 11612 C25 444 C		Ċ
ATOM 11614 C28 444 C		Č
ATOM 11616 C27 444 C		Ċ
ATOM 11618 C26 444 C		Č
ATOM 11619 C33 444 C		Č
ATOM 11620 C34 444 C		Č
ATOM 11621 F36 444 C		F
ATOM 11622 F37 444 C		F
ATOM 11623 F35 444 C		F
ATOM 11624 O42 444 C		0
ATOM 11626 C38 444 C		Č
ATOM 11627 F39 444 C		F
ATOM 11628 F40 444 C		F
ATOM 11629 F41 444 C		F
ATOM 11630 N LEU D		N
ATOM 11632 CA LEUI		C
ATOM 11634 CB LEU I		Ċ
ATOM 11637 CG LEUI		C
ATOM 11639 CD1 LEU		C
ATOM 11643 CD2 LEU		Ċ
ATOM 11647 C LEU D		C
ATOM 11648 O LEU D		Ō
ATOM 11651 N THR D		N
ATOM 11653 CA THR		C
ATOM 11655 CB THR		Č
ATOM 11657 OG1 THR		C
ATOM 11659 CG2 THR		C
ATOM 11663 C THR D		C
ATOM 11664 O THR D		Ö
ATOM 11665 N ALA D		N
ATOM 11667 CA ALA		C
ATOM 11669 CB ALA		Č
ATOM 11673 C ALA D		C
ATOM 11674 O ALA D		Ö
ATOM 11675 N ALA D		N

ATOM	11677	CA ALA D 223	59.254 120.239 66.365 1.00 20.35	С
ATOM	11679	CB ALA D 223	59.617 119.252 65.263 1.00 20.37	C
ATOM	11683	C ALA D 223	58.373 119.569 67.428 1.00 21.69	C
		O ALA D 223		Ō
		N GLN D 224	58.989 119.090 68.519 1.00 22.23	N
		CA GLN D 224		C
		CB GLN D 224	59.127 117.536 70.420 1.00 22.22	Č
		CG GLN D 224	59.198 116.092 69.897 1.00 21.63	Č
		CD GLN D 224	60.211 115.250 70.715 1.00 20.75	Č
		OE1 GLN D 224		0
		NE2 GLN D 224		N
		C GLN D 224	57.661 119.565 70.533 1.00 22.14	C
		O GLN D 224		Ö
		N GLU D 225		N
		CA GLU D 225		C
_		CB GLU D 225	59.041 122.868 71.392 1.00 23.15	C
		CG GLU D 225	60.227 122.424 72.216 1.00 25.60	C
		CD GLU D 225	60.197 123.017 73.609 1.00 28.92	Č
		OE1 GLU D 225		0
		OE2 GLU D 225		0
=		C GLU D 225	56.774 122.484 70.576 1.00 23.00	C
		O GLU D 225		Ö
		N LEU D 226	56.839 122.478 69.246 1.00 22.91	N
		CA LEU D 226	55.791 123.087 68.419 1.00 22.54	C
		CB LEU D 226	56.160 123.049 66.920 1.00 22.44	C
		CG LEU D 226	55.179 123.602 65.874 1.00 21.51	C
		CD1 LEU D 226		C
		CD2 LEU D 226		C
		C LEU D 226	54.524 122.298 68.684 1.00 22.31	c
		O LEU D 226		_
		N MET D 227		O N
			53.538 120.982 08.003 1.00 22.30	C
		CB MET D 227		
		CG MET D 227		C
		SD MET D 227	53.804 115.999 69.121 1.00 30.41	C
		CE MET D 227		S
		C MET D 227	54.339 115.735 67.302 1.00 28.56 52.872 120.209 70.088 1.00 21.96	C C
-		O MET D 227	51.663 120.213 70.149 1.00 22.52	
		N ILE D 228	53.663 120.213 70.149 1.00 22.32	0
		CA ILE D 228	53.147 120.394 72.530 1.00 20.69	N
		CB ILE D 228	54.263 120.087 73.578 1.00 20.69	C
		CG1 ILE D 228		C
		CD1 ILE D 228	54.718 118.623 73.467 1.00 19.82 56.110 118.356 74.007 1.00 19.30	C
		CD1 ILE D 228 CG2 ILE D 228		C
			53.753 120.351 74.990 1.00 19.35	
		C ILE D 228	52.506 121.740 72.823 1.00 20.46	C
ATOM			51.410 121.802 73.339 1.00 20.39	0
		N GLN D 229	53.192 122.814 72.480 1.00 20.51	N
ATUM	11//4	CA GLN D 229	52.653 124.151 72.667 1.00 20.98	С

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ATOM 11776 CB GLN D 229 53.689 125.192 72.259 1.00 21.36 C ATOM 11779 CG GLN D 229 54.859 125.276 73.219 1.00 23.14 C ATOM 11782 CD GLN D 229 55.856 126.348 72.835 1.00 25.43 C ATOM 11783 OE1 GLN D 229 55.481 127.379 72.278 1.00 26.43 O ATOM 11784 NE2 GLN D 229 57.127 126.117 73.147 1.00 26.80 N ATOM 11787 C GLN D 229 51.385 124.356 71.862 1.00 20.82 C ATOM 11788 O GLN D 229 50.497 125.119 72.250 1.00 20.41 0 ATOM 11789 N GLN D 230 51.304 123.665 70.732 1.00 20.92 N ATOM 11791 CA GLN D 230 50.144 123.763 69.878 1.00 21.20 \mathbf{C} ATOM 11793 CB GLN D 230 50.355 123.070 68.529 1.00 21.82 C ATOM 11796 CG GLN D 230 49.702 123.825 67.353 1.00 23.74 C ATOM 11799 CD GLN D 230 48.367 123.253 67.014 1.00 26.14 C ATOM 11800 OE1 GLN D 230 48.050 122.152 67.460 1.00 26.53 0 ATOM 11801 NE2 GLN D 230 47.572 123.986 66.215 1.00 28.27 N ATOM 11804 C GLN D 230 48.973 123.165 70.578 1.00 20.57 C ATOM 11805 O GLN D 230 47.949 123.806 70.692 1.00 20.72 0 ATOM 11806 N LEU D 231 49.134 121.937 71.060 1.00 20.16 N ATOM 11808 CA LEU D 231 48.089 121.266 71.827 1.00 19.67 C ATOM 11810 CB LEU D 231 48.559 119.871 72.246 1.00 19.77 C ATOM 11813 CG LEU D 231 48.878 118.858 71.142 1.00 19.65 C ATOM 11815 CD1 LEU D 231 49.388 117.583 71.789 1.00 18.59 C ATOM 11819 CD2 LEU D 231 47.682 118.591 70.251 1.00 19.17 C ATOM 11823 C LEU D 231 47.671 122.090 73.066 1.00 19.13 C ATOM 11824 O LEU D 231 46.478 122.222 73.342 1.00 18.20 O ATOM 11825 N VAL D 232 48.654 122.653 73.773 1.00 18.56 N ATOM 11827 CA VAL D 232 48.404 123.362 75.012 1.00 18.84 C ATOM 11829 CB VAL D 232 49.727 123.748 75.777 1.00 18.93 C ATOM 11831 CG1 VAL D 232 49.454 124.704 76.948 1.00 17.92 C 50.400 122.506 76.333 1.00 20.00 ATOM 11835 CG2 VAL D 232 C ATOM 11839 C VAL D 232 47.571 124.594 74.720 1.00 19.13 C ATOM 11840 O VAL D 232 46.563 124.843 75.404 1.00 19.31 0 ATOM 11841 N ALA D 233 47.995 125.348 73.704 1.00 19.27 N ATOM 11843 CA ALA D 233 47.355 126.586 73.291 1.00 19.37 \mathbf{C} ATOM 11845 CB ALA D 233 48.204 127.240 72.269 1.00 19.55 C ATOM 11849 C ALA D 233 C 45.958 126.371 72.728 1.00 19.98 ATOM 11850 O ALA D 233 45.089 127.187 72.914 1.00 20.08 O ATOM 11851 N ALA D 234 45.758 125.264 72.033 1.00 21.06 N ATOM 11853 CA ALA D 234 44.474 124.889 71.456 1.00 22.23 C ATOM 11855 CB ALA D 234 44.642 123.592 70.591 1.00 22.36 C 43.450 124.632 72.544 1.00 23.31 ATOM 11859 C ALA D 234 C ATOM 11860 O ALA D 234 42.309 125.095 72.482 1.00 24.03 O ATOM 11861 N GLN D 235 43.874 123.838 73.512 1.00 24.09 N ATOM 11863 CA GLN D 235 43.114 123.529 74.699 1.00 24.90 C ATOM 11865 CB GLN D 235 44.009 122.697 75.611 1.00 25.31 C ATOM 11868 CG GLN D 235 43.341 122.166 76.838 1.00 26.35 C ATOM 11871 CD GLN D 235 43.536 120.682 76.988 1.00 26.06 C ATOM 11872 OE1 GLN D 235 44.651 120.189 76.890 1.00 25.19 0 ATOM 11873 NE2 GLN D 235 42.446 119.967 77.242 1.00 28.28 N

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ATOM 11876 C GLN D 235 42.686 124.780 75.425 1.00 25.24 C ATOM 11877 O GLN D 235 41.538 124.919 75.809 1.00 25.03 0 ATOM 11878 N LEU D 236 43.628 125.689 75.599 1.00 26.10 N ATOM 11880 CA LEU D 236 43.390 126.942 76.297 1.00 27.26 C ATOM 11882 CB LEU D 236 44.722 127.668 76.471 1.00 27.42 C 44.745 128.873 77.398 1.00 27.58 ATOM 11885 CG LEU D 236 C ATOM 11887 CD1 LEU D 236 44.605 128.433 78.835 1.00 28.10 C ATOM 11891 CD2 LEU D 236 46.041 129.627 77.178 1.00 28.09 C ATOM 11895 C LEU D 236 42.405 127.861 75.581 1.00 28.27 C ATOM 11896 O LEU D 236 41.637 128.566 76.228 1.00 28.34 O ATOM 11897 N GLN D 237 42.452 127.861 74.252 1.00 29.81 N ATOM 11899 CA GLN D 237 41.590 128.705 73.426 1.00 31.35 C ATOM 11901 CB GLN D 237 42.258 128.976 72.061 1.00 31.48 C ATOM 11904 CG GLN D 237 43.664 129.641 72.208 1.00 32.45 C ATOM 11907 CD GLN D 237 44.260 130.205 70.924 1.00 31.73 C ATOM 11908 OE1 GLN D 237 43.818 129.873 69.838 1.00 32.01 0 ATOM 11909 NE2 GLN D 237 45.284 131.045 71.060 1.00 32.05 N ATOM 11912 C GLN D 237 40.183 128.123 73.246 1.00 32.76 C ATOM 11913 O GLN D 237 39.270 128.827 72.802 1.00 32.45 0 ATOM 11914 N CYS D 238 40.016 126.844 73.594 1.00 34.75 N ATOM 11916 CA CYS D 238 38.725 126.156 73.503 1.00 36.55 C ATOM 11918 CB CYS D 238 38.940 124.656 73.302 1.00 36.77 C ATOM 11921 SG CYS D 238 39.390 124.234 71.597 1.00 39.71 S ATOM 11922 C CYS D 238 37.857 126.431 74.741 1.00 37.59 C ATOM 11923 O CYS D 238 36.641 126.626 74.628 1.00 37.65 0 ATOM 11924 N ASN D 239 38.506 126.442 75.905 1.00 39.05 N ATOM 11926 CA ASN D 239 37.928 126.902 77.178 1.00 40.28 C ATOM 11928 CB ASN D 239 39.011 126.876 78.261 1.00 40.18 C ATOM 11931 CG ASN D 239 38.750 125.862 79.316 1.00 39.87 C 38.594 126.222 80.479 1.00 38.69 ATOM 11932 OD1 ASN D 239 0 ATOM 11933 ND2 ASN D 239 38.710 124.571 78.932 1.00 39.42 N ATOM 11936 C ASN D 239 37.351 128.324 77.125 1.00 41.84 C ATOM 11937 O ASN D 239 36.176 128.523 77.412 1.00 42.19 0 ATOM 11938 N LYS D 240 38.197 129.304 76.794 1.00 43.61 ATOM 11940 CA LYS D 240 37.783 130.711 76.662 1.00 45.18 C ATOM 11942 CB LYS D 240 38.901 131.563 76.017 1.00 45.40 C C ATOM 11945 CG LYS D 240 40.076 131.903 76.939 1.00 46.18 C ATOM 11948 CD LYS D 240 40.872 133.129 76.457 1.00 46.88 ATOM 11951 CE LYS D 240 42.395 132.894 76.551 1.00 47.30 C ATOM 11954 NZ LYS D 240 42.955 132.129 75.377 1.00 46.32 N ATOM 11958 C LYS D 240 36.516 130.833 75.808 1.00 46.26 C ATOM 11959 O LYS D 240 35.514 131.406 76.255 1.00 46.33 0 ATOM 11960 N ARG D 241 36.600 130.284 74.583 1.00 47.51 N ATOM 11962 CA ARG D 241 35.486 130.183 73.604 1.00 48.07 C ATOM 11964 CB ARG D 241 35.823 129.102 72.528 1.00 48.22 C ATOM 11967 CG ARG D 241 34.952 129.071 71.245 1.00 48.46 C 35.512 129.840 70.020 1.00 48.76 ATOM 11970 CD ARG D 241 C ATOM 11973 NE ARG D 241 34.509 130.762 69.449 1.00 49.21 N

ATOM 11975	CZ ARG D 241	34.720 131.636 68.452 1.00 48.77	С
ATOM 11976 1	NH1 ARG D 241	35.906 131.740 67.862 1.00 48.93	N
ATOM 11979 1	NH2 ARG D 241	33.727 132.418 68.041 1.00 48.40	N
ATOM 11982 (C ARG D 241	34.132 129.908 74.311 1.00 48.33	С
ATOM 11983 (O ARG D 241	33.081 130.399 73.859 1.00 48.47	Ο
ATOM 11984 1	N SER D 242	34.183 129.135 75.410 1.00 48.36	N
ATOM 11986 (CA SER D 242	33.093 129.062 76.407 1.00 48.27	С
ATOM 11988 (CB SER D 242	32.845 127.612 76.863 1.00 48.06	С
ATOM 11991 (OG SER D 242	33.856 126.745 76.395 1.00 47.14	O
ATOM 11993 (C SER D 242	33.342 129.991 77.626 1.00 48.31	C
ATOM 11994 (O SER D 242	34.033 129.642 78.592 1.00 48.11	О
ATOM 11995 1	N VAL D 249	22.728 129.089 80.179 1.00 27.32	N
ATOM 11997 (CA VAL D 249	22.676 127.776 80.822 1.00 27.70	С
ATOM 11999 (CB VAL D 249	24.089 127.310 81.263 1.00 27.90	C
ATOM 12001 (CG1 VAL D 249	24.052 126.476 82.555 1.00 27.79	С
ATOM 12005 (CG2 VAL D 249	24.771 126.513 80.139 1.00 28.41	C
ATOM 12009 (C VAL D 249	21.752 127.785 82.035 1.00 27.71	C
ATOM 12010 (O VAL D 249	21.708 128.764 82.778 1.00 27.82	Ο
ATOM 12011 1	N THR D 250	21.055 126.669 82.251 1.00 27.63	N
ATOM 12013 (CA THR D 250	20.052 126.550 83.310 1.00 27.53	C
ATOM 12015 (CB THR D 250	19.260 125.242 83.156 1.00 27.53	C
ATOM 12017 (OG1 THR D 250	18.840 125.082 81.799 1.00 27.43	О
ATOM 12019 (CG2 THR D 250	17.959 125.284 83.951 1.00 27.68	C
ATOM 12023 (C THR D 250	20.709 126.563 84.687 1.00 27.51	C
ATOM 12024 0	O THR D 250	21.724 125.885 84.890 1.00 27.39	О
ATOM 12025 N	N PRO D 251	20.141 127.312 85.635 1.00 27.46	N
ATOM 12026 (CA PRO D 251	20.720 127.387 86.980 1.00 27.48	C
ATOM 12028 (CB PRO D 251	20.172 128.715 87.539 1.00 27.49	C
ATOM 12031 (CG PRO D 251	19.156 129.216 86.544 1.00 27.35	C
ATOM 12034 (CD PRO D 251	18.929 128.142 85.522 1.00 27.39	C
ATOM 12037 (C PRO D 251	20.334 126.198 87.867 1.00 27.56	C
ATOM 12038 (O PRO D 251	19.190 125.733 87.845 1.00 27.69	О
ATOM 12039 N	N TRP D 252	21.313 125.725 88.634 1.00 27.62	N
ATOM 12041 (CA TRP D 252	21.182 124.581 89.549 1.00 27.55	C
ATOM 12043 (CB TRP D 252	22.278 124.691 90.628 1.00 27.55	C
ATOM 12046 (CG TRP D 252	22.524 123.453 91.445 1.00 27.48	C
ATOM 12047 (CD1 TRP D 252	22.550 123.360 92.816 1.00 27.50	C
ATOM 12049 N	NE1 TRP D 252	22.819 122.066 93.197 1.00 27.51	N
ATOM 12051 0	CE2 TRP D 252	22.988 121.295 92.072 1.00 26.94	С
ATOM 12052 (CD2 TRP D 252	22.809 122.137 90.952 1.00 26.92	C
ATOM 12053 (CE3 TRP D 252	22.921 121.577 89.672 1.00 25.87	C
ATOM 12055 (CZ3 TRP D 252	23.193 120.232 89.547 1.00 24.88	C
ATOM 12057 (CH2 TRP D 252	23.359 119.422 90.674 1.00 25.44	C
ATOM 12059 0	CZ2 TRP D 252	23.269 119.930 91.944 1.00 25.75	С
ATOM 12061 (C TRP D 252	19.786 124.407 90.196 1.00 27.43	С
ATOM 12062 0	O TRP D 252	19.248 125.312 90.836 1.00 27.03	0
ATOM 12063 N	N ALA D 260	11.952 118.155 95.227 1.00 23.00	N
ATOM 12065 0	CA ALA D 260	12.344 116.854 94.696 1.00 23.32	С

4 mol (10067 CD AT A D 060	11 000 110 000 07 07 1 00 00 00	_
		11.832 115.729 95.597 1.00 23.03	C
		11.876 116.645 93.244 1.00 23.64	C
	12072 O ALA D 260		0
	12073 N ALA D 261		N
		10.134 117.103 91.542 1.00 24.02	С
	12077 CB ALA D 261	8.621 117.448 91.625 1.00 24.06	С
	12081 C ALA D 261	10.811 117.867 90.378 1.00 24.05	C
ATOM	12082 O ALA D 261	11.689 117.323 89.700 1.00 23.74	O
	12083 N ASP D 262	10.406 119.124 90.161 1.00 24.17	N
ATOM	12085 CA ASP D 262	10.994 119.991 89.121 1.00 24.14	C
	12087 CB ASP D 262		C
ATOM	12090 CG ASP D 262	8.859 121.204 88.403 1.00 24.03	С
ATOM	12091 OD1 ASP D 262	8.783 120.729 87.250 1.00 24.40	О
ATOM	12092 OD2 ASP D 262	7.801 121.556 88.973 1.00 22.47	O
ATOM	12093 C ASP D 262	12.487 120.270 89.353 1.00 24.08	С
ATOM	12094 O ASP D 262	13.148 120.862 88.498 1.00 24.02	Ο
ATOM	12095 N ALA D 263	12.995 119.863 90.519 1.00 24.08	N
ATOM	12097 CA ALA D 263	14.406 119.986 90.863 1.00 24.12	С
		14.605 119.827 92.363 1.00 24.05	Č
	12103 C ALA D 263	15.235 118.953 90.116 1.00 24.31	C
ATOM	12104 O ALA D 263		Ō
		14.906 117.672 90.298 1.00 24.43	N
		15.637 116.571 89.645 1.00 24.41	C
	12109 CB ARG D 264	14.931 115.220 89.857 1.00 24.78	Č
	12112 CG ARG D 264		Č
	12115 CD ARG D 264	16.128 113.313 91.153 1.00 28.02	Č
	12118 NE ARG D 264	15.936 112.468 92.338 1.00 29.58	N
	12120 CZ ARG D 264	16.344 112.768 93.581 1.00 30.11	Ċ
		17.004 113.895 93.847 1.00 30.32	N
		16.099 111.919 94.574 1.00 30.11	N
		15.786 116.812 88.157 1.00 23.72	C
		16.872 116.650 87.618 1.00 23.74	Ö
		14.686 117.204 87.514 1.00 23.03	N
		14.637 117.457 86.071 1.00 23.54	C
	12131 CA GEN D 265	13.273 118.023 85.671 1.00 22.69	C
	12136 CG GLN D 265	12.092 117.084 85.914 1.00 23.55	C
	12130 CO GEN D 203	11.692 116.289 84.682 1.00 24.35	C
	12140 OE1 GLN D 265	12.547 115.948 83.836 1.00 24.12	0
	12140 OE1 GLN D 265	10.391 115.972 84.582 1.00 23.27	
	12141 NE2 GLN D 265	15.674 118.475 85.669 1.00 21.78	N
	12144 C GLN D 265		C
		16.368 118.314 84.667 1.00 21.44	0
	12146 N GLN D 266	15.744 119.532 86.469 1.00 20.95	N
	12148 CA GLN D 266	16.585 120.686 86.191 1.00 20.34	C
	12150 CB GLN D 266	16.051 121.911 86.942 1.00 20.32	C
	12153 CG GLN D 266	14.887 122.611 86.250 1.00 19.85	C
	12156 CD GLN D 266	14.876 124.095 86.515 1.00 19.30	C
	12157 OE1 GLN D 266	13.819 124.682 86.767 1.00 18.49	0
ATOM	12158 NE2 GLN D 266	16.054 124.712 86.462 1.00 18.45	N

ATOM	12161	C GLN D 266	18.060 120.493 86.534 1.00 19.81	. C
ATOM	12162	O GLN D 266	18.918 121.083 85.887 1.00 19.75	О
ATOM	12163	N ARG D 267	18.367 119.707 87.558 1.00 19.26	N
ATOM	12165	CA ARG D 267	19.760 119.484 87.928 1.00 18.91	С
ATOM	12167	CB ARG D 267	19.875 118.831 89.307 1.00 18.86	С
ATOM	12170	CG ARG D 267	19.368 119.716 90.458 1.00 19.30	C
ATOM	12173	CD ARG D 267	20.088 119.498 91.791 1.00 19.49	C
ATOM	12176	NE ARG D 267	19.276 119.747 92.990 1.00 19.05	N
ATOM	12178	CZ ARG D 267	18.259 118.992 93.394 1.00 19.29	C
ATOM	12179	NH1 ARG D 26	7 17.879 117.927 92.698 1.00 19.93	N
		NH2 ARG D 26	7 17.605 119.304 94.501 1.00 19.74	N
ATOM	12185	C ARG D 267	20.372 118.607 86.850 1.00 18.71	C
ATOM	12186	O ARG D 267	21.551 118.745 86.522 1.00 18.59	Ο
ATOM	12187	N PHE D 268	19.540 117.732 86.281 1.00 18.40	N
ATOM	12189	CA PHE D 268	19.941 116.860 85.186 1.00 18.11	C
ATOM	12191	CB PHE D 268	18.951 115.694 85.016 1.00 17.95	C
ATOM	12194	CG PHE D 268	19.275 114.814 83.856 1.00 17.37	C
		CD1 PHE D 268		C
ATOM	12197	CE1 PHE D 268	20.693 113.154 82.823 1.00 17.07	C
ATOM	12199	CZ PHE D 268	19.946 113.236 81.669 1.00 17.17	C
ATOM	12201	CE2 PHE D 268	18.865 114.109 81.602 1.00 16.96	C
ATOM	12203	CD2 PHE D 268	18.542 114.893 82.686 1.00 16.46	C
ATOM	12205	C PHE D 268	20.098 117.636 83.865 1.00 18.05	C
ATOM	12206	O PHE D 268	21.070 117.418 83.151 1.00 17.93	O
ATOM	12207	N ALA D 269	19.159 118.534 83.547 1.00 17.95	N
ATOM	12209	CA ALA D 269	19.231 119.343 82.316 1.00 17.76	C
ATOM	12211	CB ALA D 269	17.983 120.183 82.140 1.00 17.62	С
		C ALA D 269	20.461 120.235 82.347 1.00 17.71	C
ATOM	12216	O ALA D 269	21.244 120.267 81.404 1.00 17.51	O
		N HIS D 270	20.615 120.954 83.451 1.00 17.77	N
ATOM	12219	CA HIS D 270	21.846 121.670 83.766 1.00 18.05	C
		CB HIS D 270	21.771 122.211 85.198 1.00 18.27	C
		CG HIS D 270		C
		ND1 HIS D 270	23.591 123.949 85.199 1.00 21.95	N
		CE1 HIS D 270	24.743 124.191 85.798 1.00 22.95	C
		NE2 HIS D 270	24.975 123.223 86.664 1.00 21.99	N
		CD2 HIS D 270	23.941 122.322 86.610 1.00 21.49	C
ATOM	12233	C HIS D 270	23.122 120.815 83.569 1.00 17.75	C
ATOM	12234	O HIS D 270	24.135 121.307 83.066 1.00 17.56	O
		N PHE D 271	23.075 119.546 83.959 1.00 17.53	N
-		CA PHE D 271	24.208 118.640 83.727 1.00 17.53	C
		CB PHE D 271	24.053 117.315 84.477 1.00 17.68	C
		CG PHE D 271	24.873 117.217 85.731 1.00 18.67	C
		CD1 PHE D 271	24.595 118.009 86.823 1.00 19.66	C
		CE1 PHE D 271	25.339 117.902 87.997 1.00 20.35	C
		CZ PHE D 271	26.364 116.992 88.092 1.00 20.48	C
		CE2 PHE D 271	26.649 116.183 87.019 1.00 20.74	C
ATOM	12251	CD2 PHE D 271	25.898 116.292 85.837 1.00 20.72	C

12253	C PHE D 271	24.379 118.341 82.244 1.00 17.14	C
12254	O PHE D 271	25.495 118.324 81.764 1.00 17.01	O
12255	N THR D 272	23.289 118.097 81.517 1.00 16.93	N
12257	CA THR D 272	23.401 117.786 80.092 1.00 16.56	С
12259	CB THR D 272	22.085 117.262 79.459 1.00 16.45	С
		2 21.036 118.214 79.635 1.00 15.61	C
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12267	C THR D 272		C
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12331	14 SER D 2/8	30.333 120.043 /0.036 1.00 19.34	N
	12254 12255 12257 12259 12261 12263 12267 12268 12269 12271 12273 12276 12280 12281 12282 12283 12284 12288 12291 12293 12297 12301 12302 12303 12305 12311 12312 12313 12315 12317 12319 12322 12330 12331 12332 12334 12336 12338 12341 12345 12349 12350	12254 O PHE D 271 12255 N THR D 272 12257 CA THR D 272 12259 CB THR D 272 12261 OG1 THR D 272 12263 CG2 THR D 272 12268 O THR D 272 12268 O THR D 273 12271 CA GLU D 273 12271 CA GLU D 273 12273 CB GLU D 273 12276 CG GLU D 273 12279 CD GLU D 273 12280 OE1 GLU D 273 12280 OE1 GLU D 273 12281 OE2 GLU D 273 12282 C GLU D 273 12283 O GLU D 273 12284 N LEU D 274 12286 CA LEU D 274 12286 CA LEU D 274 12291 CG LEU D 274 12291 CG LEU D 274 12291 CG LEU D 274 12302 O LEU D 274 12303 N ALA D 275 12305 CA ALA D 275 12311 C ALA D 275 12311 C ALA D 275 12313 N ILE D 276 12315 CA ILE D 276	12257 CA THR D 272 12269 CB THR D 272 12263 CG2 THR D 272 12266 C THR D 272 12268 O THR D 272 12269 N GLU D 273 12271 CA GLU D 273 12273 CB GLU D 273 12273 CB GLU D 273 12274 CG GLU D 273 12275 CG GLU D 273 12276 CG GLU D 273 12276 CG GLU D 273 12280 OEI GLU D 273 12281 OE2 GLU D 273 12281 OE2 GLU D 273 12282 C GLU D 273 12282 C GLU D 273 12283 O GLU D 273 12284 N LEU D 274 12285 CA LEU D 274 12286 CA LEU D 274 12287 CD2 LEU D 274 12288 CB LEU D 274 12290 CG LEU D 274 12291 CG LEU D 274 12291 CG LEU D 274 12302 O LEU D 274 12303 N ALA D 275 12311 C ALA D 275 12311 C ALA D 275 12312 O ALA D 275 12313 N ILE D 276 12315 CA ILE D 276 12315 CA ILE D 276 12316 CG2 ILE D 276 12317 CB ILE D 276 12318 CG1 ILE D 276 12332 N ILE D 276 12334 CA ILE D 277 12335 CG2 ILE D 277 12336 CB ILE D 277 12336 CG ILE D 277 12337 CB ILE D 277 12337 CB ILE D 277 12338 CGI ILE D 277 12338 CGI ILE D 277 12339 CI ILE D 277 12331 CI ILE D 277 12334 CA ILE D 277 12335 CG ILE D 277 12336 CG ILE D 277 12337 CG ILE D 277 12337 CG ILE D 277 12338 CGI ILE D 277 12339 CG ILE D 277 12340 CR ILE D 277 12350 O ILE

ATOM	12353	CA SER D 278	32.180 120.061 76.639 1.00 19.82	С
ATOM	12355	CB SER D 278	32.177 118.950 77.690 1.00 19.87	C
ATOM	12358	OG SER D 278	32.603 119.456 78.931 1.00 20.32	O
ATOM	12360	C SER D 278	32.370 119.441 75.268 1.00 20.11	С
ATOM	12361	O SER D 278	33.477 119.453 74.731 1.00 20.21	O
ATOM	12362	N VAL D 279	31.285 118.894 74.723 1.00 20.55	N
ATOM	12364	CA VAL D 279		C
ATOM	12366	CB VAL D 279		C
ATOM	12368	CG1 VAL D 279	29.886 117.021 71.695 1.00 21.43	C
ATOM	12372	CG2 VAL D 279	29.657 116.394 74.083 1.00 21.87	C
ATOM	12376	C VAL D 279	31.740 119.042 72.341 1.00 21.16	C
ATOM	12377	O VAL D 279	32.469 118.620 71.457 1.00 21.05	О
ATOM	12378	N GLN D 280	31.259 120.278 72.375 1.00 21.62	N
ATOM	12380	CA GLN D 280	31.549 121.265 71.344 1.00 22.33	C
ATOM	12382	CB GLN D 280	30.526 122.415 71.428 1.00 22.48	C
ATOM	12385	CG GLN D 280	31.071 123.835 71.198 1.00 24.61	C
ATOM	12388	CD GLN D 280	30.630 124.844 72.270 1.00 26.80	С
ATOM	12389	OE1 GLN D 280	29.492 125.353 72.230 1.00 27.38	0
ATOM	12390	NE2 GLN D 280	31.535 125.143 73.220 1.00 26.29	N
ATOM	12393	C GLN D 280	33.027 121.735 71.465 1.00 22.39	C
ATOM	12394	O GLN D 280	33.717 121.917 70.454 1.00 22.31	О
ATOM	12395	N GLU D 281	33.492 121.905 72.708 1.00 22.30	N
ATOM	12397	CA GLU D 281	34.896 122.230 73.038 1.00 22.00	C
ATOM	12399	CB GLU D 281	35.091 122.375 74.575 1.00 21.87	С
ATOM	12402	CG GLU D 281	34.897 123.780 75.148 1.00 21.96	C
ATOM	12405	CD GLU D 281	35.016 123.853 76.670 1.00 22.51	С
ATOM	12406	OE1 GLU D 281	35.522 122.911 77.312 1.00 24.35	0
ATOM	12407	OE2 GLU D 281	34.597 124.871 77.242 1.00 22.76	О
ATOM	12408	C GLU D 281	35.877 121.174 72.523 1.00 21.82	C
ATOM	12409	O GLU D 281	37.006 121.501 72.122 1.00 21.34	О
ATOM	12410	N ILE D 282	35.453 119.913 72.576 1.00 21.79	N
ATOM	12412	CA ILE D 282	36.289 118.800 72.159 1.00 22.01	C
ATOM	12414	CB ILE D 282	35.772 117.461 72.747 1.00 21.99	C
ATOM	12416	CG1 ILE D 282	35.959 117.470 74.259 1.00 22.50	\mathbf{C}
ATOM	12419	CD1 ILE D 282	34.986 116.570 74.979 1.00 23.27	C
ATOM	12423	CG2 ILE D 282	36.494 116.248 72.121 1.00 20.81	C
ATOM	12427	C ILE D 282	36.368 118.734 70.645 1.00 22.12	C
ATOM	12428	O ILE D 282	37.413 118.378 70.122 1.00 22.28	Ο
ATOM	12429	N VAL D 283	35.282 119.068 69.951 1.00 22.17	N
ATOM	12431	CA VAL D 283	35.297 119.088 68.499 1.00 22.70	C
ATOM	12433	CB VAL D 283	33.883 119.307 67.897 1.00 22.96	C
ATOM	12435	CG1 VAL D 283	33.956 119.665 66.436 1.00 22.97	С
		CG2 VAL D 283		C
		C VAL D 283	36.283 120.163 68.037 1.00 22.61	C
		O VAL D 283	37.210 119.865 67.295 1.00 22.62	0
		N ASP D 284	36.088 121.392 68.512 1.00 22.66	N
		CA ASP D 284	36.959 122.533 68.215 1.00 22.70	C
ATOM	12449	CB ASP D 284	36.633 123.736 69.115 1.00 22.97	C

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ATOM 12	2452	CG ASP D 284	35.339 124.424 68.740 1.00 23.36	С
ATOM 12	2453	OD1 ASP D 284	35.035 125.488 69.322 1.00 25.20	0
		OD2 ASP D 284	34.549 123.964 67.897 1.00 24.52	Ō
ATOM 12	2455	C ASP D 284	38.412 122.175 68.406 1.00 22.40	C
		O ASP D 284	39.231 122.440 67.554 1.00 23.22	0
		N PHE D 285	38.719 121.573 69.536 1.00 22.24	N
		CA PHE D 285	40.040 121.016 69.808 1.00 22.02	C
		CB PHE D 285	40.082 120.433 71.217 1.00 21.60	Č
		CG PHE D 285	41.437 119.970 71.629 1.00 20.44	Č
		CD1 PHE D 285	42.418 120.872 71.940 1.00 20.37	C
		CE1 PHE D 285	43.658 120.443 72.320 1.00 19.67	Č
		CZ PHE D 285	43.933 119.132 72.385 1.00 18.57	Č
		CE2 PHE D 285	42.984 118.230 72.077 1.00 19.85	C
		CD2 PHE D 285	41.740 118.639 71.691 1.00 20.07	C
		C PHE D 285	40.520 119.941 68.820 1.00 22.57	C
		O PHE D 285	41.611 120.086 68.279 1.00 23.04	Ö
		N ALA D 286	39.754 118.869 68.587 1.00 22.62	N
		CA ALA D 286	40.178 117.847 67.617 1.00 23.09	C
		CB ALA D 286	39.134 116.752 67.491 1.00 23.17	Č
		C ALA D 286	40.513 118.405 66.219 1.00 23.54	C
		O ALA D 286	41.352 117.849 65.515 1.00 23.29	Ö
		N LYS D 287	39.852 119.497 65.833 1.00 23.97	Ň
		CA LYS D 287	40.030 120.100 64.525 1.00 24.53	C
		CB LYS D 287	38.860 121.077 64.177 1.00 25.33	Č
		CG LYS D 287	37.481 120.465 63.567 1.00 27.96	C
ATOM 12	2497	CD LYS D 287	37.368 118.867 63.694 1.00 32.35	C
ATOM 12	2500	CE LYS D 287	35.911 118.136 63.551 1.00 33.10	С
ATOM 12	2503	NZ LYS D 287	34.754 118.860 62.906 1.00 33.08	N
ATOM 12	2507	C LYS D 287	41.399 120.800 64.479 1.00 24.04	С
ATOM 12	2508	O LYS D 287	41.974 120.936 63.395 1.00 24.35	Ο
ATOM 12	2509	N GLN D 288	41.919 121.225 65.641 1.00 23.24	N
ATOM 12	2511	CA GLN D 288	43.290 121.804 65.768 1.00 22.64	C
ATOM 12	2513	CB GLN D 288	43.377 122.829 66.910 1.00 22.82	С
ATOM 12	2516	CG GLN D 288	42.381 123.965 66.878 1.00 23.86	С
ATOM 12	2519	CD GLN D 288	42.710 124.969 65.844 1.00 26.39	C
ATOM 12	2520	OE1 GLN D 288	43.848 125.429 65.755 1.00 29.45	О
ATOM 12	2521	NE2 GLN D 288	41.729 125.323 65.041 1.00 27.81	N
ATOM 12	2524	C GLN D 288	44.446 120.807 66.017 1.00 21.77	C
ATOM 12	2525	O GLN D 288	45.604 121.213 65.961 1.00 21.00	О
ATOM 12	2526	N VALD 289	44.156 119.538 66.324 1.00 21.18	N
ATOM 12	2528	CA VAL D 289	45.220 118.544 66.510 1.00 20.73	C
ATOM 12	2530	CB VAL D 289	44.738 117.276 67.243 1.00 20.79	C
ATOM 12	2532	CG1 VAL D 289	45.885 116.238 67.403 1.00 19.29	С
ATOM 12	2536	CG2 VAL D 289	44.129 117.651 68.609 1.00 20.99	С
		C VAL D 289	45.789 118.159 65.143 1.00 20.90	С
		O VAL D 289	45.039 117.683 64.287 1.00 20.95	0
		N PRO D 290	47.091 118.396 64.912 1.00 20.70	N
ATOM 12	2543	CA PRO D 290	47.705 118.003 63.647 1.00 20.51	С

ATOM	12545 CB PRO D 290	49.170 118.393 63.854 1.00 20.50	C
ATOM	12548 CG PRO D 290	49.114 119.490 64.867 1.00 20.21	С
	12551 CD PRO D 290	48.068 119.071 65.795 1.00 20.24	С
	12554 C PRO D 290	47.537 116.501 63.361 1.00 21.20	C
	12555 O PRO D 290	47.848 115.674 64.219 1.00 20.62	0
	12556 N GLY D 291	47.026 116.169 62.171 1.00 22.22	N
	12558 CA GLY D 291	46.806 114.792 61.762 1.00 22.96	C
	12561 C GLY D 291	45.325 114.489 61.588 1.00 23.80	C
	12562 O GLY D 291	44.927 113.845 60.601 1.00 24.45	Ö
	12563 N PHE D 292	44.518 114.949 62.553 1.00 23.74	N
	12565 CA PHE D 292	43.083 114.699 62.583 1.00 23.53	C
	12567 CB PHE D 292	42.446 115.495 63.727 1.00 23.16	Č
	12570 CG PHE D 292	41.103 115.012 64.091 1.00 21.53	Č
		40.955 113.843 64.802 1.00 22.59	C
	12571 CB1 THE D 292	39.709 113.365 65.109 1.00 23.64	C
	12575 CZ PHE D 292	38.581 114.057 64.686 1.00 22.30	C
	12577 CE2 PHE D 292	38.734 115.203 63.973 1.00 21.89	C
	12577 CE2 PHE D 292	39.989 115.678 63.677 1.00 21.09	C
	12579 CD2 FITE D 292 12581 C PHE D 292	42.343 114.989 61.252 1.00 24.42	C
	12581 C THE D 292	41.609 114.121 60.744 1.00 23.56	0
	12582 O FILED 292 12583 N LEU D 293	42.536 116.193 60.697 1.00 25.57	N
	12585 N LEO D 293		C
	12587 CB LEU D 293	41.717 118.146 59.358 1.00 26.83	C
	12590 CG LEU D 293	41.021 118.951 60.490 1.00 28.44	C
		41.363 120.447 60.419 1.00 28.44	
			C
	12596 CD2 LEU D 293	39.489 118.773 60.545 1.00 28.73	C
	12600 C LEU D 293	42.361 115.993 58.202 1.00 26.86	C
	12601 O LEU D 293	41.711 116.044 57.165 1.00 26.99	0
	12602 N GLN D 294	43.553 115.404 58.277 1.00 27.57	N
	12604 CA GLN D 294	44.088 114.555 57.195 1.00 28.18	C
	12606 CB GLN D 294	45.650 114.549 57.221 1.00 29.08	C
	12609 CG GLN D 294	46.375 113.374 57.995 1.00 29.83	C
	12612 CD GLN D 294	47.882 113.628 58.254 1.00 31.21	C
	12613 OE1 GLN D 294	48.653 112.690 58.434 1.00 35.09	C
	12614 NE2 GLN D 294	48.277 114.878 58.300 1.00 31.40	N
	12617 C GLN D 294	43.520 113.100 57.194 1.00 27.84	C
	12618 O GLN D 294	43.881 112.296 56.330 1.00 27.73	0
	12619 N LEU D 295	42.649 112.773 58.161 1.00 27.04	N
	12621 CA LEU D 295	41.918 111.509 58.187 1.00 25.66	C
	12623 CB LEU D 295	41.611 111.090 59.633 1.00 25.33	C
	12626 CG LEU D 295	42.789 110.608 60.478 1.00 23.90	C
	12628 CD1 LEU D 295	42.330 110.230 61.882 1.00 22.76	C
	12632 CD2 LEU D 295	43.509 109.447 59.805 1.00 22.45	C
	12636 C LEU D 295	40.630 111.676 57.409 1.00 25.12	C
	12637 O LEU D 295	40.140 112.781 57.283 1.00 24.36	0
	12638 N GLY D 296	40.078 110.571 56.912 1.00 24.98	N
	12640 CA GLY D 296	38.788 110.591 56.251 1.00 25.23	C
ATOM	12643 C GLY D 296	37.695 111.063 57.188 1.00 25.63	С

ATOM	12644	O GLY D 296	37.828 110.926 58.383 1.00 26.10	O
ATOM	12645	N ARG D 297	36.606 111.620 56.665 1.00 26.28	N
ATOM	12647	CA ARG D 297	35.548 112.157 57.527 1.00 26.54	С
ATOM	12649	CB ARG D 297	34.434 112.786 56.700 1.00 26.90	С
ATOM	12652	CG ARG D 297	33.485 113.685 57.498 1.00 29.64	С
ATOM	12655	CD ARG D 297	32.206 114.073 56.720 1.00 33.39	С
ATOM	12658	NE ARG D 297	31.164 114.678 57.568 1.00 36.49	N
ATOM	12660	CZ ARG D 297	30.052 114.061 58.027 1.00 39.03	С
ATOM	12661	NH1 ARG D 297	29.786 112.775 57.750 1.00 39.92	N
ATOM	12664	NH2 ARG D 297	29.191 114.745 58.787 1.00 39.05	N
ATOM	12667	C ARG D 297	34.972 111.079 58.443 1.00 26.10	С
ATOM	12668	O ARG D 297	34.630 111.363 59.595 1.00 25.41	O
ATOM	12669	N GLU D 298	34.880 109.853 57.916 1.00 25.79	N
ATOM	12671	CA GLU D 298	34.324 108.709 58.638 1.00 25.76	С
ATOM	12673	CB GLU D 298	34.363 107.457 57.760 1.00 26.37	С
ATOM	12676	CG GLU D 298	33.086 106.639 57.739 1.00 28.91	С
ATOM	12679	CD GLU D 298	32.357 106.757 56.418 1.00 32.85	C
ATOM	12680	OE1 GLU D 298	31.774 107.844 56.148 1.00 35.69	O
ATOM	12681	OE2 GLU D 298	32.379 105.767 55.648 1.00 35.42	O
ATOM	12682	C GLU D 298	35.097 108.436 59.925 1.00 24.94	C
		O GLU D 298	34.507 108.340 61.022 1.00 24.94	O
ATOM	12684	N ASP D 299	36.415 108.311 59.770 1.00 23.72	N
ATOM	12686	CA ASP D 299	37.321 108.057 60.884 1.00 22.63	С
		CB ASP D 299	38.712 107.756 60.374 1.00 22.35	C
		CG ASP D 299	38.857 106.328 59.985 1.00 23.42	C
		OD1 ASP D 299	37.825 105.618 60.008 1.00 22.19	0
		OD2 ASP D 299	39.950 105.818 59.649 1.00 27.24	Ō
		C ASP D 299	37.385 109.175 61.883 1.00 21.89	С
		O ASP D 299	37.517 108.919 63.058 1.00 21.49	Ö
		N GLN D 300	37.307 110.415 61.421 1.00 21.38	N
		CA GLN D 300	37.217 111.550 62.326 1.00 20.93	C
		CB GLN D 300	37.044 112.846 61.538 1.00 20.99	Č
		CG GLN D 300	38.286 113.275 60.758 1.00 21.23	Č
		CD GLN D 300	38.076 114.518 59.908 1.00 18.90	Č
		OE1 GLN D 300	37.373 115.450 60.302 1.00 18.65	Ō
		NE2 GLN D 300	38.696 114.529 58.747 1.00 17.75	N
		C GLN D 300	36.017 111.354 63.232 1.00 20.70	C
		O GLN D 300	36.083 111.596 64.438 1.00 20.60	Ö
		N ILE D 301	34.911 110.922 62.629 1.00 20.41	N
		CA ILE D 301	33.645 110.807 63.342 1.00 20.32	C
		CB ILE D 301	32.430 110.539 62.342 1.00 20.75	Č
		CG1 ILE D 301	31.698 111.842 62.000 1.00 21.61	C
		CD1 ILE D 301	31.071 111.821 60.585 1.00 23.12	Č
		CG2 ILE D 301	31.376 109.561 62.898 1.00 21.24	Č
		C ILE D 301	33.773 109.734 64.396 1.00 19.30	c
		O ILE D 301	33.405 109.956 65.535 1.00 18.56	Ö
		N ALA D 302	34.308 108.591 63.979 1.00 18.64	N
		CA ALA D 302	34.464 107.424 64.811 1.00 18.49	C
		1.2.119 302	J 70 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	

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ATOM 12736 CB ALA D 302 34.989 106.285 63.975 1.00 18.24 C ATOM 12740 C ALA D 302 35.392 107.675 66.004 1.00 18.94 C ATOM 12741 O ALA D 302 35.089 107.258 67.112 1.00 19.46 0 ATOM 12742 N LEU D 303 36.514 108.359 65.779 1.00 19.14 N ATOM 12744 CA LEU D 303 37.488 108.638 66.827 1.00 19.01 C ATOM 12746 CB LEU D 303 38.767 109.255 66.259 1.00 18.59 C ATOM 12749 CG LEU D 303 39.571 108.400 65.304 1.00 18.48 C ATOM 12751 CD1 LEU D 303 40.776 109.135 64.828 1.00 18.54 C ATOM 12755 CD2 LEU D 303 39.963 107.096 65.946 1.00 19.04 C ATOM 12759 C LEU D 303 36.926 109.599 67.842 1.00 19.75 C ATOM 12760 O LEU D 303 37.207 109.466 69.014 1.00 20.11 0 ATOM 12761 N LEU D 304 36.162 110.583 67.396 1.00 20.37 N ATOM 12763 CA LEU D 304 35.606 111.578 68.302 1.00 21.24 C ATOM 12765 CB LEU D 304 35.090 112.794 67.533 1.00 21.60 C ATOM 12768 CG LEU D 304 36.047 113.963 67.403 1.00 22.91 C ATOM 12770 CD1 LEU D 304 35.301 115.085 66.740 1.00 23.49 C ATOM 12774 CD2 LEU D 304 36.599 114.368 68.770 1.00 23.75 C ATOM 12778 C LEU D 304 34.450 111.005 69.082 1.00 21.38 C ATOM 12779 O LEU D 304 34.229 111.379 70.230 1.00 21.95 0 ATOM 12780 N LYS D 305 33.690 110.124 68.449 1.00 21.59 N ATOM 12782 CA LYS D 305 32.502 109.564 69.064 1.00 22.10 C ATOM 12784 CB LYS D 305 31.758 108.677 68.078 1.00 22.53 C ATOM 12787 CG LYS D 305 30.328 108.350 68.468 1.00 24.98 C ATOM 12790 CD LYS D 305 29.521 107.812 67.266 1.00 27.56 C ATOM 12793 CE LYS D 305 C 28.563 106.702 67.654 1.00 28.13 ATOM 12796 NZ LYS D 305 27.205 107.285 67.902 1.00 30.85 N ATOM 12800 C LYS D 305 32.914 108.768 70.288 1.00 21.70 C ATOM 12801 O LYS D 305 32.287 108.868 71.324 1.00 22.09 0 ATOM 12802 N ALA D 306 34.001 108.022 70.160 1.00 21.18 N ATOM 12804 CA ALA D 306 34.567 107.235 71.239 1.00 20.90 C ATOM 12806 CB ALA D 306 35.573 106.256 70.663 1.00 20.80 C ATOM 12810 C ALA D 306 35.260 108.088 72.286 1.00 21.39 C ATOM 12811 O ALA D 306 35.157 107.824 73.476 1.00 21.09 0 ATOM 12812 N SER D 307 35.992 109.098 71.824 1.00 21.92 N ATOM 12814 CA SER D 307 36.969 109.802 72.650 1.00 22.50 C ATOM 12816 CB SER D 307 37.996 110.563 71.787 1.00 22.64 C ATOM 12819 OG SER D 307 39.257 109.880 71.824 1.00 25.98 0 ATOM 12821 C SER D 307 36.331 110.791 73.585 1.00 22.17 C ATOM 12822 O SER D 307 36.852 111.052 74.661 1.00 22.21 0 ATOM 12823 N THR D 308 35.206 111.340 73.152 1.00 21.79 N ATOM 12825 CA THR D 308 34.552 112.457 73.819 1.00 21.33 C ATOM 12827 CB THR D 308 33.269 112.742 73.087 1.00 21.46 C ATOM 12829 OG1 THR D 308 33.608 113.275 71.802 1.00 21.01 0 ATOM 12831 CG2 THR D 308 32.442 113.843 73.775 1.00 21.81 C ATOM 12835 C THR D 308 34.288 112.248 75.304 1.00 21.10 \mathbf{C} ATOM 12836 O THR D 308 34.700 113.058 76.126 1.00 21.23 0 ATOM 12837 N ILE D 309 33.623 111.162 75.669 1.00 20.75 N ATOM 12839 CA ILE D 309 33.423 110.900 77.087 1.00 20.29 \mathbf{C}

ATOM	12841	CB ILE D 309	32.512 109.705 77.301 1.00 20.15	С
			32.088 109.627 78.769 1.00 20.44	С
ATOM	12846	CD1 ILE D 309	31.347 110.861 79.247 1.00 20.84	C
ATOM	12850	CG2 ILE D 309		Ċ
		C ILE D 309	34.758 110.692 77.837 1.00 20.07	C
			34.842 111.020 79.042 1.00 20.47	Ö
			35.770 110.128 77.157 1.00 18.95	N
		CA GLU D 310		C
		CB GLU D 310		Č
		CG GLU D 310		Č
		CD GLU D 310		C
		OEI GLU D 310		o
			37.390 105.427 75.831 1.00 14.78	Ö
			37.787 111.189 78.103 1.00 17.84	c
			38.389 111.363 79.139 1.00 17.21	0
		N ILE D 311		N
			38.274 113.445 77.287 1.00 18.00	
		CB ILE D 311		C
				C
		CG1 ILE D 311	39.246 113.548 74.950 1.00 18.50	C
			39.166 114.008 73.462 1.00 18.54	C
			38.456 115.690 76.033 1.00 16.96	С
		C ILED 311	37.601 114.257 78.390 1.00 17.89	C
		O ILE D 311		0
		N MET D 312		N
		CA MET D 312		C
		CB MET D 312	33.963 114.537 79.279 1.00 18.58	C
		CG MET D 312		C
		SD MET D 312		S
			30.718 115.688 78.243 1.00 23.95	C
			35.836 114.286 80.874 1.00 18.48	C
			35.800 114.994 81.877 1.00 18.43	О
			36.152 113.006 80.896 1.00 18.57	N
ATOM	12909	CA LEU D 313	36.513 112.322 82.098 1.00 19.20	C
ATOM	12911	CB LEU D 313	36.602 110.821 81.795 1.00 19.54	C
ATOM	12914	CG LEU D 313	35.268 110.100 81.922 1.00 19.89	С
ATOM	12916	CD1 LEU D 313	35.355 108.731 81.246 1.00 21.07	С
ATOM	12920	CD2 LEU D 313	34.876 109.976 83.398 1.00 19.05	C
ATOM	12924	C LEU D 313	37.849 112.830 82.567 1.00 19.34	C
ATOM	12925	O LEU D 313	38.080 113.038 83.746 1.00 19.32	Ο
ATOM	12926	N LEU D 314	38.737 112.989 81.608 1.00 19.77	N
ATOM	12928	CA LEU D 314	40.102 113.411 81.842 1.00 20.55	C
ATOM	12930	CB LEU D 314	40.856 113.304 80.522 1.00 20.62	С
		CG LEU D 314	42.241 112.700 80.428 1.00 21.87	С
		CD1 LEU D 314		C
		CD2 LEU D 314		Č
		C LEU D 314	40.117 114.859 82.333 1.00 20.82	C
		O LEU D 314	40.898 115.226 83.202 1.00 20.41	Ö
ATOM			39.225 115.658 81.740 1.00 21.66	Ň
				- 1

4 TO 3 (12047	CA CITID 215	20.062.117.095.92.020.1.00.21.06	_
			39.062 117.085 82.029 1.00 21.96	C
		CB GLUD 315		C
		CG GLU D 315	39.159 118.050 79.651 1.00 25.65	С
		CD GLUD 315	40.257 119.085 79.890 1.00 29.69	C
		OEI GLU D 315	39.934 120.148 80.471 1.00 32.41	0
		OE2 GLU D 315	41.434 118.839 79.511 1.00 30.62	0
		C GLU D 315	38.318 117.271 83.338 1.00 21.05	C
			38.530 118.266 84.046 1.00 21.15	0
			37.451 116.312 83.651 1.00 19.95	N
			36.697 116.323 84.895 1.00 19.30	C
			35.616 115.211 84.871 1.00 18.81	C
			34.491 115.641 84.096 1.00 16.74	0
			35.022 114.957 86.258 1.00 18.57	C
		C THR D 316	37.696 116.153 86.052 1.00 19.52	C
			37.687 116.924 87.042 1.00 19.17	О
			38.578 115.166 85.872 1.00 19.45	N
ATOM	12976		39.610 114.797 86.842 1.00 19.58	С
ATOM	12978	CB ALA D 317	40.431 113.613 86.299 1.00 19.72	C
ATOM	12982	C ALA D 317	40.533 115.956 87.133 1.00 19.30	С
ATOM	12983	O ALA D 317	40.906 116.205 88.274 1.00 18.64	О
ATOM	12984	N ARG D 318	40.886 116.633 86.047 1.00 19.70	N
ATOM	12986	CA ARG D 318	41.825 117.748 86.005 1.00 20.05	C
ATOM	12988	CB ARG D 318	41.897 118.209 84.552 1.00 20.24	C
ATOM	12991	CG ARG D 318	42.857 119.365 84.244 1.00 22.52	C
ATOM	12994	CD ARG D 318	42.898 119.694 82.750 1.00 24.07	С
ATOM	12997	NE ARG D 318	44.023 120.541 82.434 1.00 25.37	N
ATOM	12999	CZ ARG D 318	44.650 120.582 81.273 1.00 27.69	C
ATOM	13000	NH1 ARG D 318	44.284 119.804 80.261 1.00 29.30	N
		NH2 ARG D 318	45.658 121.431 81.123 1.00 28.26	N
ATOM	13006	C ARG D 318	41.422 118.921 86.898 1.00 19.78	C
			42.277 119.707 87.320 1.00 18.62	O
			40.110 118.998 87.152 1.00 20.23	N
		CA ARG D 319	39.430 120.077 87.865 1.00 20.95	С
		CB ARG D 319	38.140 120.431 87.122 1.00 21.55	С
		CG ARG D 319	38.327 120.791 85.656 1.00 24.18	С
		CD ARG D 319	38.481 122.302 85.384 1.00 28.57	C
		NE ARG D 319	38.068 122.655 84.029 1.00 31.34	N
		CZ ARG D 319	38.648 122.190 82.929 1.00 34.77	C
		NH1 ARG D 319	39.675 121.348 82.992 1.00 36.10	N
		NH2 ARG D 319	38.193 122.558 81.745 1.00 37.68	N
		C ARG D 319	39.035 119.718 89.295 1.00 20.60	c
		O ARG D 319	38.483 120.551 90.020 1.00 20.22	ŏ
		N TYR D 320	39.317 118.479 89.682 1.00 20.75	N
		CA TYR D 320	38.916 117.943 90.971 1.00 20.72	C
		CB TYR D 320	39.061 116.422 90.978 1.00 20.70	Č
		CG TYR D 320	38.692 115.770 92.292 1.00 20.35	C
		CD1 TYR D 320	37.376 115.469 92.591 1.00 19.94	C
		CE1 TYR D 320	37.376 113.469 92.391 1.00 19.94	C
ATUM	13042	CELLIK D 320	31.U32 114.031 33.101 1.UV 13.01	C

ATOM	13044	CZ TYR D 320	38.007 114.552 94.694 1.00 19.88	С
ATOM	13045	OH TYR D 320	37.652 113.950 95.881 1.00 20.01	O
ATOM	13047	CE2 TYR D 320	39.324 114.845 94.422 1.00 19.88	С
ATOM	13049	CD2 TYR D 320	39.661 115.442 93.224 1.00 20.15	С
ATOM	13051	C TYR D 320	39.741 118.546 92.101 1.00 20.94	С
ATOM	13052	O TYR D 320	40.968 118.564 92.056 1.00 20.78	O
ATOM	13053	N ASN D 321	39.022 119.013 93.111 1.00 21.28	N
		CA ASN D 321	39.555 119.586 94.329 1.00 21.69	C
		CB ASN D 321	38.626 120.746 94.733 1.00 21.83	Č
ATOM	13060	CG ASN D 321		Č
ATOM	13061	OD1 ASN D 321		O
		ND2 ASN D 321		N
		C ASN D 321		C
ATOM	13066	O ASN D 321	38.468 117.931 95.726 1.00 21.54	Ō
		N HIS D 322	40.724 118.085 95.891 1.00 22.96	N
		CA HIS D 322	40.818 117.021 96.900 1.00 23.77	C
ATOM	13071	CB HIS D 322	42.149 116.238 96.795 1.00 24.07	С
ATOM	13074	CG HIS D 322	42.101 114.884 97.456 1.00 25.78	C
ATOM	13075	ND1 HIS D 322	41.106 113.958 97.202 1.00 26.82	N
ATOM	13077	CE1 HIS D 322	41.309 112.878 97.935 1.00 26.95	С
ATOM	13079	NE2 HIS D 322	42.392 113.070 98.667 1.00 27.14	N
ATOM	13081	CD2 HIS D 322	42.902 114.319 98.393 1.00 26.71	С
ATOM	13083	C HIS D 322	40.538 117.501 98.354 1.00 23.63	С
ATOM	13084	O HIS D 322	40.309 116.683 99.256 1.00 23.64	O
ATOM	13085	N GLU D 323	40.532 118.817 98.561 1.00 23.40	N
ATOM	13087	CA GLU D 323	40.110 119.408 99.826 1.00 23.21	C
ATOM	13089	CB GLU D 323	40.597 120.851 99.929 1.00 23.45	C
ATOM	13092	CG GLU D 323	42.102 121.033 99.857 1.00 23.68	С
ATOM	13095	CD GLU D 323	42.808 120.540 101.104 1.00 24.52	C
ATOM	13096	OE1 GLU D 323	42.437 120.944 102.248 1.00 23.26	O
ATOM	13097	OE2 GLU D 323	43.748 119.744 100.914 1.00 24.55	О
ATOM	13098	C GLU D 323	38.590 119.418 99.949 1.00 22.98	С
ATOM	13099	O GLU D 323	38.043 119.013 100.970 1.00 22.89	O
ATOM	13100	N THR D 324	37.917 119.905 98.908 1.00 22.80	N
ATOM	13102	CA THR D 324	36.462 120.107 98.930 1.00 22.50	С
ATOM	13104	CB THR D 324	36.072 121.409 98.159 1.00 22.59	С
ATOM	13106	OG1 THR D 324	36.456 121.322 96.782 1.00 22.02	О
ATOM	13108	CG2 THR D 324	36.863 122.623 98.664 1.00 22.66	С
ATOM	13112	C THR D 324	35.689 118.910 98.372 1.00 22.31	С
ATOM	13113	O THR D 324	34.472 118.857 98.498 1.00 21.79	O
ATOM	13114	N GLU D 325	36.414 117.955 97.778 1.00 22.45	N
ATOM	13116	CA GLU D 325	35.851 116.735 97.156 1.00 22.39	С
ATOM	13118	CB GLU D 325	35.239 115.774 98.220 1.00 22.70	С
ATOM	13121	CG GLU D 325	36.033 115.582 99.525 1.00 23.36	С
ATOM	13124	CD GLU D 325	37.010 114.396 99.538 1.00 24.78	С
ATOM	13125	OE1 GLU D 325	37.499 114.040 100.635 1.00 25.95	0
ATOM	13126	OE2 GLU D 325	37.322 113.820 98.477 1.00 26.11	0
ATOM	13127	C GLU D 325	34.834 117.048 96.035 1.00 21.81	C

ATOM 13128 O GLU D 325 33.797 116.385 95.914 1.00 21.16 0 ATOM 13129 N CYS D 326 35.157 118.052 95.215 1.00 21.65 N ATOM 13131 CA CYS D 326 34.253 118.552 94.164 1.00 21.65 C ATOM 13133 CB CYS D 326 33.624 119.877 94.582 1.00 21.65 C ATOM 13136 SG CYS D 326 32.795 119.862 96.151 1.00 20.33 S ATOM 13137 C CYS D 326 34.934 118.851 92.850 1.00 21.87 C ATOM 13138 O CYS D 326 36.047 119.355 92.836 1.00 21.29 O ATOM 13139 N ILE D 327 34.223 118.615 91.751 1.00 22.65 N ATOM 13141 CA ILE D 327 34.701 119.019 90.434 1.00 23.54 C ATOM 13143 CB ILE D 327 34.214 118.084 89.352 1.00 23.59 C ATOM 13145 CG1 ILE D 327 34.606 116.645 89.673 1.00 24.93 C ATOM 13148 CD1 ILE D 327 33.411 115.715 89.709 1.00 26.49 C ATOM 13152 CG2 ILE D 327 34.824 118.469 88.031 1.00 24.21 C ATOM 13156 C ILE D 327 34.225 120.405 90.114 1.00 24.05 C ATOM 13157 O ILE D 327 33.115 120.761 90.420 1.00 23.55 0 ATOM 13158 N THR D 328 35.078 121.152 89.432 1.00 25.57 N ATOM 13160 CA THR D 328 34.907 122.584 89.221 1.00 26.70 C ATOM 13162 CB THR D 328 36.032 123.326 89.998 1.00 26.94 C ATOM 13164 OG1 THR D 328 36.042 122.900 91.376 1.00 26.95 0 ATOM 13166 CG2 THR D 328 35.787 124.845 90.035 1.00 27.12 C ATOM 13170 C THR D 328 34.969 122.925 87.724 1.00 27.26 \mathbf{C} ATOM 13171 O THR D 328 35.959 123.493 87.259 1.00 27.63 0 ATOM 13172 N ALA D 329 33.905 122.575 86.992 1.00 27.70 N ATOM 13174 CA ALA D 329 33.818 122.753 85.532 1.00 27.88 C ATOM 13176 CB ALA D 329 32.506 122.163 84.995 1.00 27.77 C ATOM 13180 C ALA D 329 33.937 124.212 85.116 1.00 27.79 C ATOM 13181 O ALA D 329 33.417 125.089 85.788 1.00 28.03 0 ATOM 13182 N PHE D 333 30.476 127.084 90.472 1.00 24.39 N ATOM 13184 CA PHE D 333 30.201 125.947 89.594 1.00 24.53 C ATOM 13186 CB PHE D 333 30.414 126.341 88.126 1.00 24.62 C ATOM 13189 CG PHE D 333 29.333 127.245 87.582 1.00 26.25 C ATOM 13190 CD1 PHE D 333 28.349 126.745 86.729 1.00 26.75 C ATOM 13192 CE1 PHE D 333 C 27.348 127.573 86.234 1.00 27.17 ATOM 13194 CZ PHE D 333 27.320 128.923 86.594 1.00 27.66 C ATOM 13196 CE2 PHE D 333 28.291 129.435 87.450 1.00 27.27 C ATOM 13198 CD2 PHE D 333 29.289 128.603 87.940 1.00 27.23 C ATOM 13200 C PHE D 333 31.031 124.711 89.961 1.00 24.03 C ATOM 13201 O PHE D 333 31.736 124.156 89.119 1.00 23.95 0 ATOM 13202 N THR D 334 30.938 124.296 91.227 1.00 23.60 N ATOM 13204 CA THR D 334 31.488 123.015 91.690 1.00 23.28 C ATOM 13206 CB THR D 334 32.364 123.166 92.979 1.00 23.36 C ATOM 13208 OG1 THR D 334 31.534 123.368 94.135 1.00 22.00 0 ATOM 13210 CG2 THR D 334 33.275 124.392 92.916 1.00 23.52 C ATOM 13214 C THR D 334 30.372 121.998 91.953 1.00 22.94 C 29.252 122.372 92.288 1.00 23.01 ATOM 13215 O THR D 334 0 ATOM 13216 N TYR D 335 30.699 120.714 91.816 1.00 22.58 Ν ATOM 13218 CA TYR D 335 29.741 119.624 91.993 1.00 22.37 C ATOM 13220 CB TYR D 335 29.286 119.078 90.631 1.00 22.28 C

ATOM	13223 CG TYR D 335	28.726 120.162 89.738 1.00 22.32	С
ATOM	13224 CD1 TYR D 33		C
	13226 CE1 TYR D 335		Č
	13228 CZ TYR D 335		C
	13229 OH TYR D 335		Ō
	13231 CE2 TYR D 335		Č
	13233 CD2 TYR D 33		C
	13235 C TYR D 335	30.379 118.518 92.818 1.00 22.12	C
	13236 O TYR D 335	31.382 117.931 92.404 1.00 22.18	Ö
	13237 N SER D 336		N
	13239 CA SER D 336		C
	13241 CB SER D 336		C
	13244 OG SER D 336		ŏ
	13246 C SER D 336	29.646 115.839 94.375 1.00 21.75	c
	13247 O SER D 336	28.911 115.811 93.388 1.00 21.91	Ö
	13248 N LYS D 337		N
	13250 CA LYS D 337		Ċ
	13252 CB LYS D 337		C
	13255 CG LYS D 337		C
	13258 CD LYS D 337		Č
	13261 CE LYS D 337		Ċ
	13264 NZ LYS D 337		N
ATOM	13268 C LYS D 337	27.766 113.581 94.944 1.00 21.72	C
ATOM	13269 O LYS D 337	27.023 113.113 94.082 1.00 21.42	O
ATOM	13270 N ASP D 338	27.322 114.228 96.021 1.00 21.83	N
ATOM	13272 CA ASP D 338	25.900 114.419 96.288 1.00 21.83	С
ATOM	13274 CB ASP D 338	25.697 115.180 97.604 1.00 21.84	С
ATOM	13277 CG ASP D 338	24.259 115.141 98.086 1.00 21.87	С
ATOM	13278 OD1 ASP D 338	3 23.753 116.180 98.580 1.00 21.66	O
ATOM	13279 OD2 ASP D 338	3 23.564 114.107 98.005 1.00 22.04	О
ATOM	13280 C ASP D 338	25.184 115.146 95.152 1.00 21.77	C
ATOM	13281 O ASP D 338	24.025 114.848 94.860 1.00 21.70	O
ATOM	13282 N ASP D 339	25.876 116.094 94.525 1.00 21.74	N
ATOM	13284 CA ASP D 339	25.298 116.899 93.449 1.00 21.88	С
ATOM	13286 CB ASP D 339	26.237 118.038 93.050 1.00 22.05	С
ATOM	13289 CG ASP D 339	26.329 119.120 94.091 1.00 21.96	С
ATOM	13290 OD1 ASP D 339	25.299 119.470 94.707 1.00 22.87	О
ATOM	13291 OD2 ASP D 339	27.405 119.692 94.339 1.00 22.06	О
ATOM	13292 C ASP D 339	25.003 116.080 92.203 1.00 21.86	C
ATOM	13293 O ASP D 339	24.007 116.314 91.526 1.00 21.72	Ο
ATOM	13294 N PHE D 340	25.888 115.146 91.879 1.00 21.93	N
ATOM	13296 CA PHE D 340	25.628 114.243 90.774 1.00 21.96	С
ATOM	13298 CB PHE D 340	26.787 113.275 90.563 1.00 21.67	С
	13301 CG PHE D 340		C
	13302 CD1 PHE D 340		C
	13304 CEI PHE D 340		C
	13306 CZ PHE D 340		C
ATOM	13308 CE2 PHE D 340	29.459 113.620 87.883 1.00 18.94	С

ATOM	13310	CD2 PHE D 340	28.406 113.130 88.633 1.00 19.62	С
		C PHE D 340	24.360 113.475 91.114 1.00 22.63	C
		O PHE D 340	23.404 113.480 90.348 1.00 22.45	Ö
		N HIS D 341	24.350 112.860 92.296 1.00 23.66	N
		CA HIS D 341	23.235 112.002 92.750 1.00 24.57	C
		CB HIS D 341	23.594 111.335 94.087 1.00 24.61	C
		CG HIS D 341	22.528 110.415 94.606 1.00 24.90	C
		ND1 HIS D 341	22.165 109.253 93.957 1.00 25.23	N
		CE1 HIS D 341	21.201 108.657 94.638 1.00 25.18	C
		NE2 HIS D 341	20.927 109.390 95.704 1.00 24.35	_
				N
		CD2 HIS D 341	21.743 110.494 95.708 1.00 24.37	C
		C HIS D 341	21.887 112.777 92.841 1.00 25.22	C
		O HIS D 341	20.837 112.182 92.612 1.00 25.40	0
		N ARG D 342	21.921 114.076 93.141 1.00 25.94	N
		CA ARG D 342	20.712 114.917 93.156 1.00 26.51	C
		CB ARG D 342	21.001 116.260 93.843 1.00 26.53	C
		CG ARG D 342	20.471 116.387 95.277 1.00 27.35	C
		CD ARG D 342	21.546 116.453 96.376 1.00 28.04	C
		NE ARG D 342	21.296 117.526 97.343 1.00 27.92	N
		CZ ARG D 342	21.949 118.692 97.396 1.00 28.32	С
ATOM	13348	NH1 ARG D 342	22.929 118.984 96.539 1.00 27.50	N
ATOM	13351	NH2 ARG D 342	21.612 119.583 98.328 1.00 28.66	N
ATOM	13354	C ARG D 342	20.148 115.165 91.737 1.00 26.96	C
ATOM	13355	O ARG D 342	18.973 115.518 91.584 1.00 26.59	О
ATOM	13356	N ALA D 343	21.001 114.981 90.718 1.00 27.71	N
ATOM	13358	CA ALA D 343	20.621 115.056 89.297 1.00 28.17	С
ATOM	13360	CB ALA D 343	21.841 115.420 88.420 1.00 28.01	C
ATOM	13364	C ALA D 343	20.000 113.771 88.776 1.00 28.68	С
ATOM	13365	O ALA D 343	19.811 113.648 87.573 1.00 28.97	O
ATOM	13366	N GLY D 344	19.696 112.826 89.671 1.00 29.34	N
ATOM	13368	CA GLY D 344	19.109 111.539 89.319 1.00 29.76	С
		C GLY D 344		C
		O GLY D 344		Ō
		N LEU D 345	21.409 110.703 89.079 1.00 30.59	N
		CA LEU D 345	22.436 109.761 88.619 1.00 30.99	C
		CB LEU D 345	23.785 110.482 88.392 1.00 31.13	Č
		CG LEU D 345	23.869 111.635 87.372 1.00 31.54	Č
		CD1 LEU D 345	25.317 111.914 87.000 1.00 31.62	C
		CD2 LEU D 345	23.052 111.376 86.110 1.00 32.03	C
		C LEU D 345	22.655 108.545 89.541 1.00 31.08	c
		O LEU D 345	22.474 108.620 90.768 1.00 31.20	Ö
		N GLN D 346	23.027 107.431 88.903 1.00 31.06	N
		CA GLN D 346	23.442 106.191 89.556 1.00 31.00	
		CB GLN D 346	23.721 105.111 88.503 1.00 31.10	C C
		CG GLN D 346	22.582 104.170 88.205 1.00 31.85	C
		CD GLN D 346	23.015 102.995 87.321 1.00 32.92	C
		OE1 GLN D 346	22.733 101.826 87.639 1.00 33.78	0
AIOM	13404	NE2 GLN D 346	23.700 103.301 86.218 1.00 31.83	N

ATOM 13407	C GLN D 346	24.729 106.377 90.352 1.00 30.85	C
ATOM 13408	O GLN D 346	25.688 106.977 89.859 1.00 30.87	O
ATOM 13409	N VAL D 347	24.749 105.808 91.560 1.00 30.65	N
ATOM 13411	CA VAL D 347	25.959 105.682 92.394 1.00 30.36	C
ATOM 13413	CB VAL D 347	25.638 104.859 93.673 1.00 30.19	С
ATOM 13415	CG1 VAL D 347	26.909 104.399 94.373 1.00 29.60	С
ATOM 13419	CG2 VAL D 347	24.768 105.690 94.621 1.00 30.41	C
ATOM 13423	C VAL D 347	27.108 104.988 91.657 1.00 30.12	С
ATOM 13424	O VAL D 347	28.276 105.346 91.783 1.00 30.18	O
ATOM 13425	N GLU D 348	26.721 104.007 90.857 1.00 29.75	N
ATOM 13427	CA GLU D 348	27.602 103.018 90.263 1.00 29.12	С
ATOM 13429	CB GLU D 348	26.732 101.823 89.789 1.00 29.32	C
ATOM 13432	CG GLU D 348	25.344 101.775 90.485 1.00 30.20	С
ATOM 13435	CD GLU D 348	24.687 100.410 90.574 1.00 32.08	С
ATOM 13436	OE1 GLU D 348	25.304 99.410 90.160 1.00 34.02	O
ATOM 13437	OE2 GLU D 348	23.538 100.334 91.079 1.00 32.31	Ο
ATOM 13438	C GLU D 348	28.429 103.693 89.153 1.00 28.19	C
ATOM 13439	O GLU D 348	29.515 103.227 88.795 1.00 27.93	O
ATOM 13440	N PHE D 349	27.914 104.822 88.656 1.00 27.37	N
ATOM 13442	CA PHE D 349	28.647 105.740 87.768 1.00 26.58	С
ATOM 13444	CB PHE D 349	27.655 106.528 86.883 1.00 26.82	C
ATOM 13447	CG PHE D 349	28.311 107.529 85.946 1.00 27.76	С
ATOM 13448	CD1 PHE D 349	29.220 107.114 84.989 1.00 27.85	С
ATOM 13450	CE1 PHE D 349	29.801 108.004 84.136 1.00 27.86	C
ATOM 13452	CZ PHE D 349	29.497 109.347 84.222 1.00 29.09	С
ATOM 13454	CE2 PHE D 349	28.594 109.792 85.162 1.00 29.42	C
ATOM 13456	CD2 PHE D 349	28.000 108.885 86.019 1.00 29.04	С
ATOM 13458	C PHE D 349	29.508 106.723 88.561 1.00 25.28	С
ATOM 13459	O PHE D 349	30.659 106.943 88.219 1.00 24.79	O
ATOM 13460	N ILE D 350	28.932 107.300 89.613 1.00 24.05	N
ATOM 13462	CA ILE D 350	29.560 108.370 90.381 1.00 23.28	C
ATOM 13464	CB ILE D 350	28.574 108.917 91.482 1.00 23.37	С
ATOM 13466	CG1 ILE D 350	27.430 109.695 90.831 1.00 22.93	C
ATOM 13469	CD1 ILE D 350	26.212 109.857 91.698 1.00 21.90	С
ATOM 13473	CG2 ILE D 350	29.290 109.847 92.496 1.00 22.95	C
ATOM 13477	C ILE D 350	30.878 107.961 91.024 1.00 22.81	C
ATOM 13478	O ILE D 350	31.837 108.721 90.983 1.00 22.60	O
ATOM 13479	N ASN D 351	30.925 106.780 91.629 1.00 22.37	N
ATOM 13481	CA ASN D 351	32.086 106.381 92.427 1.00 22.38	C
ATOM 13483	CB ASN D 351	31.761 105.140 93.290 1.00 22.44	C
ATOM 13486	CG ASN D 351	30.794 105.452 94.453 1.00 22.56	C
ATOM 13487	OD1 ASN D 351	30.899 106.489 95.104 1.00 23.39	Ο
ATOM 13488	ND2 ASN D 351	29.861 104.544 94.710 1.00 20.88	N
ATOM 13491	C ASN D 351	33.393 106.197 91.599 1.00 22.35	C
ATOM 13492	O ASN D 351	34.446 106.707 91.999 1.00 21.94	Ο
ATOM 13493	N PRO D 352	33.343 105.466 90.477 1.00 22.41	N
ATOM 13494	CA PRO D 352	34.451 105.455 89.507 1.00 22.36	C
ATOM 13496	CB PRO D 352	33.926 104.530 88.402 1.00 22.66	С

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ATOM	13591 O SER D 357	41.752 112.749 90.336 1.00 22.80	O
ATOM	13592 N ARG D 358	40.406 111.562 91.705 1.00 23.22	N
ATOM	13594 CA ARG D 358	41.341 111.441 92.822 1.00 23.69	С
ATOM	13596 CB ARG D 358	40.737 110.539 93.895 1.00 23.84	C
ATOM	13599 CG ARG D 358	39.950 111.209 94.976 1.00 24.37	С
ATOM	13602 CD ARG D 358	39.736 110.306 96.194 1.00 26.14	С
ATOM	13605 NE ARG D 358	39.529 108.888 95.840 1.00 28.42	N
ATOM	13607 CZ ARG D 358	38.343 108.249 95.780 1.00 29.21	С
ATOM	13608 NH1 ARG D 358	37.197 108.883 96.034 1.00 29.97	N
ATOM	13611 NH2 ARG D 358	38.300 106.958 95.450 1.00 27.86	N
ATOM	13614 C ARG D 358	42.691 110.830 92.426 1.00 23.99	C
ATOM	13615 O ARG D 358	43.751 111.291 92.843 1.00 24.03	Ο
ATOM	13616 N ALA D 359	42.646 109.761 91.657 1.00 24.70	N
ATOM	13618 CA ALA D 359	43.859 109.060 91.284 1.00 25.97	С
ATOM	13620 CB ALA D 359	43.518 107.709 90.658 1.00 26.12	C
ATOM	13624 C ALA D 359	44.698 109.895 90.320 1.00 26.89	C
ATOM	13625 O ALA D 359	45.927 109.899 90.386 1.00 27.13	О
ATOM	13626 N MET D 360	44.015 110.595 89.422 1.00 27.85	N
ATOM	13628 CA MET D 360	44.656 111.460 88.446 1.00 28.56	С
	13630 CB MET D 360	43.597 112.080 87.546 1.00 28.45	C
ATOM	13633 CG MET D 360	44.056 112.313 86.120 1.00 30.11	C
ATOM	13636 SD MET D 360	44.377 110.883 85.113 1.00 28.53	S
ATOM	13637 CE MET D 360	43.314 109.810 85.823 1.00 34.13	C
ATOM	13641 C MET D 360	45.417 112.569 89.155 1.00 29.08	С
	13642 O MET D 360	46.510 112.954 88.745 1.00 29.36	О
	13643 N ARG D 361	44.824 113.076 90.227 1.00 29.70	N
	13645 CA ARG D 361	45.424 114.136 91.017 1.00 30.30	С
	13647 CB ARG D 361	44.445 114.577 92.114 1.00 31.01	C
	13650 CG ARG D 361	44.491 116.079 92.461 1.00 33.71	C
	13653 CD ARG D 361	44.105 117.057 91.292 1.00 36.07	C
	13656 NE ARG D 361	44.559 118.427 91.594 1.00 38.11	N
	13658 CZ ARG D 361	44.012 119.551 91.130 1.00 39.33	C
	13659 NH1 ARG D 361	42.974 119.521 90.303 1.00 40.49	N
	13662 NH2 ARG D 361	44.517 120.725 91.492 1.00 39.98	N
	13665 C ARG D 361	46.770 113.722 91.626 1.00 29.88	C
	13666 O ARG D 361	47.661 114.546 91.763 1.00 30.15	0
	13667 N ARG D 362	46.909 112.446 91.985 1.00 29.65	N
	13669 CA ARG D 362	48.170 111.878 92.511 1.00 29.18	C
	13671 CB ARG D 362	47.904 110.507 93.169 1.00 29.35	C
	13674 CG ARG D 362	47.317 110.584 94.575 1.00 30.19	C
	13677 CD ARG D 362	47.282 109.249 95.323 1.00 31.60	C
	13680 NE ARG D 362	45.948 108.648 95.253 1.00 32.65	N
	13682 CZ ARG D 362	45.557 107.717 94.377 1.00 33.54	C
	13683 NH1 ARG D 362		N
	13686 NH2 ARG D 362		N
	13689 C ARG D 362	49.276 111.729 91.447 1.00 28.41	C
	13690 O ARG D 362	50.456 111.699 91.775 1.00 28.03	0
ATUM	13691 N LEU D 363	48.886 111.593 90.181 1.00 27.94	N

ATOM	13693 CA LEU D 363	49.840 111.656 89.066 1.00 27.63	С
ATOM	13695 CB LEU D 363	49.227 111.128 87.757 1.00 27.65	C
ATOM	13698 CG LEU D 363	49.419 109.647 87.420 1.00 29.01	С
ATOM	13700 CD1 LEU D 363	48.824 109.324 86.037 1.00 29.75	C
ATOM	13704 CD2 LEU D 363	50.874 109.230 87.468 1.00 29.68	C
ATOM	13708 C LEU D 363	50.337 113.091 88.854 1.00 26.67	C
ATOM	13709 O LEU D 363	51.453 113.292 88.377 1.00 26.33	Ο
ATOM	13710 N GLY D 364	49.497 114.069 89.200 1.00 25.70	N
ATOM	13712 CA GLY D 364	49.838 115.471 89.097 1.00 25.00	С
ATOM	13715 C GLY D 364	50.272 115.827 87.698 1.00 24.46	C
ATOM	13716 O GLY D 364	51.367 116.319 87.512 1.00 24.19	Ο
ATOM	13717 N LEU D 365	49.429 115.554 86.707 1.00 23.82	N
ATOM	13719 CA LEU D 365	49.751 115.950 85.340 1.00 23.63	C
ATOM	13721 CB LEU D 365	48.755 115.348 84.333 1.00 23.97	C
ATOM	13724 CG LEU D 365	48.642 113.823 84.122 1.00 25.37	. C
ATOM	13726 CD1 LEU D 365	48.105 113.520 82.731 1.00 26.39	C
ATOM	13730 CD2 LEU D 365	49.932 113.110 84.331 1.00 25.72	C
ATOM	13734 C LEU D 365	49.780 117.485 85.176 1.00 22.74	C
ATOM	13735 O LEU D 365	49.017 118.206 85.825 1.00 22.40	О
ATOM	13736 N ASP D 366	50.666 117.964 84.303 1.00 21.78	N
ATOM	13738 CA ASP D 366	50.739 119.384 83.959 1.00 21.15	C
	13740 CB ASP D 366	52.192 119.895 83.946 1.00 20.82	\mathbf{C}
ATOM	13743 CG ASP D 366	53.069 119.161 82.977 1.00 19.90	C
ATOM	13744 OD1 ASP D 366	52.536 118.498 82.080 1.00 19.99	О
ATOM	13745 OD2 ASP D 366	54.311 119.183 83.027 1.00 19.11	О
ATOM	13746 C ASP D 366	50.023 119.609 82.631 1.00 20.87	C
ATOM	13747 O ASP D 366	49.387 118.696 82.105 1.00 20.68	O
ATOM	13748 N ASP D 367	50.093 120.826 82.104 1.00 20.37	N
ATOM	13750 CA ASP D 367	49.335 121.161 80.906 1.00 20.07	C
ATOM	13752 CB ASP D 367	49.370 122.668 80.651 1.00 20.06	C
ATOM	13755 CG ASP D 367	48.587 123.480 81.707 1.00 20.54	C
ATOM	13756 OD1 ASP D 367	47.757 122.922 82.449 1.00 19.80	О
ATOM	13757 OD2 ASP D 367	48.735 124.711 81.855 1.00 22.21	О
ATOM	13758 C ASP D 367	49.815 120.367 79.677 1.00 19.79	C
ATOM	13759 O ASP D 367	49.009 119.853 78.898 1.00 20.20	O
ATOM	13760 N ALA D 368	51.119 120.243 79.521 1.00 19.10	N
ATOM	13762 CA ALA D 368	51.675 119.515 78.404 1.00 18.97	C
ATOM	13764 CB ALA D 368	53.174 119.610 78.454 1.00 19.22	С
ATOM	13768 C ALA D 368	51.244 118.041 78.420 1.00 19.05	C
ATOM	13769 O ALA D 368	50.894 117.458 77.382 1.00 19.42	О
ATOM	13770 N GLU D 369	51.263 117.453 79.613 1.00 18.57	N
ATOM	13772 CA GLU D 369	51.017 116.038 79.791 1.00 17.67	C
	13774 CB GLU D 369	51.444 115.590 81.187 1.00 17.57	C
-	13777 CG GLU D 369	52.954 115.386 81.330 1.00 16.91	C
ATOM	13780 CD GLU D 369	53.435 115.301 82.779 1.00 15.04	C
ATOM	13781 OE1 GLU D 369	54.568 114.842 83.036 1.00 13.47	0
	13782 OE2 GLU D 369		O
ATOM	13783 C GLU D 369	49.558 115.761 79.556 1.00 17.63	C

ATOM	13784	O GLU D 369	49.219 114.772 78.920 1.00 18.08	Ο
ATOM	13785	N TYR D 370	48.676 116.628 80.025 1.00 17.66	N
ATOM	13787	CA TYR D 370	47.261 116.383 79.794 1.00 18.30	С
ATOM	13789	CB TYR D 370	46.381 117.376 80.517 1.00 18.67	С
ATOM	13792	CG TYR D 370	45.808 116.849 81.801 1.00 21.05	С
ATOM	13793	CD1 TYR D 370	46.142 117.446 83.028 1.00 23.25	С
ATOM	13795	CE1 TYR D 370	45.627 116.986 84.221 1.00 23.37	С
ATOM	13797	CZ TYR D 370	44.768 115.914 84.229 1.00 23.91	C
		OH TYR D 370	44.274 115.482 85.440 1.00 23.59	0
		CE2 TYR D 370		C
		CD2 TYR D 370		Ċ
		C TYR D 370	46.953 116.460 78.319 1.00 18.19	C
		O TYR D 370	46.259 115.603 77.791 1.00 17.82	Ō
		N ALA D 371	47.491 117.493 77.668 1.00 18.69	N
		CA ALA D 371	47.179 117.801 76.272 1.00 18.52	C
		CB ALA D 371	47.795 119.140 75.852 1.00 18.43	Č
		C ALA D 371	47.661 116.674 75.390 1.00 18.35	C
		O ALA D 371	46.945 116.232 74.487 1.00 18.18	Ö
		N LEU D 372	48.847 116.170 75.693 1.00 18.25	N
		CA LEU D 372	49.373 115.028 74.964 1.00 18.98	C
		CB LEU D 372	50.807 114.739 75.415 1.00 18.86	Č
_		CG LEU D 372	51.815 115.736 74.853 1.00 18.92	Č
		CD1 LEU D 372		C
		CD2 LEU D 372		Č
		C LEU D 372	48.503 113.760 75.099 1.00 19.72	C
		O LEU D 372	48.331 113.008 74.154 1.00 19.43	Ö
		N LEU D 373	47.971 113.530 76.292 1.00 20.97	N
		CA LEU D 373	47.180 112.329 76.574 1.00 21.51	C
		CB LEU D 373	46.819 112.225 78.068 1.00 22.02	Č
		CG LEU D 373	47.579 111.219 78.927 1.00 23.19	Č
		CD1 LEU D 373	46.906 111.138 80.293 1.00 24.13	C
		CD2 LEU D 373	47.641 109.871 78.243 1.00 23.08	Č
		C LEU D 373	45.909 112.368 75.786 1.00 21.12	c
		O LEU D 373	45.394 111.332 75.360 1.00 20.97	Ö
		N ILE D 374	45.382 113.560 75.605 1.00 20.62	N
		CA ILE D 374	44.163 113.654 74.868 1.00 21.18	C
		CB ILE D 374	43.565 115.011 74.986 1.00 21.45	č
		CG1 ILE D 374	43.228 115.327 76.456 1.00 22.09	C
		CD1 ILE D 374	43.129 116.846 76.721 1.00 20.83	Č
		CG2 ILE D 374	42.339 115.092 74.048 1.00 21.96	Č
		C ILE D 374	44.441 113.354 73.397 1.00 21.37	C
		O ILE D 374	43.705 112.601 72.765 1.00 21.71	Ö
		N ALA D 375	45.496 113.944 72.845 1.00 20.92	N
		CA ALA D 375	45.829 113.693 71.456 1.00 20.37	C
		CB ALA D 375	47.084 114.443 71.089 1.00 20.56	C
		C ALA D 375	46.012 112.193 71.261 1.00 20.11	c
ATOM			45.441 111.611 70.362 1.00 19.98	0
ATOM			46.787 111.582 72.152 1.00 20.02	N
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ATOM	13885	CA ILE D 376	47.047 110.161 72.141 1.00 19.93	С
ATOM	13887	CB ILE D 376	47.960 109.772 73.318 1.00 19.91	С
ATOM	13889	CG1 ILE D 376	49.370 110.321 73.087 1.00 19.82	C
ATOM	13892	CD1 ILE D 376	50.422 109.953 74.173 1.00 20.60	C
		CG2 ILE D 376	48.013 108.222 73.502 1.00 20.45	C
		C ILE D 376		C
		O ILE D 376		Ō
			44.806 109.843 72.988 1.00 20.20	N
			43.544 109.144 73.193 1.00 20.29	C
		CB ASN D 377		Č
			41.464 109.059 74.742 1.00 20.97	Č
			40.473 109.329 74.066 1.00 23.08	O
			41.420 108.218 75.769 1.00 16.97	N
			42.690 109.230 71.919 1.00 19.95	C T
			41.993 108.278 71.560 1.00 20.27	0
		N ILE D 378		N
		CA ILE D 378		C
_		CB ILE D 378		C
		CG1 ILE D 378	41.342 113.031 70.375 1.00 19.09	C
		CD1 ILE D 378		C
		CG2 ILE D 378		C
		C ILE D 378		C
		O ILE D 378		0
			43.701 109.422 68.823 1.00 18.34	N
		CA PHE D 379		C
		CB PHE D 379		C
		CG PHE D 379	45.493 110.415 66.539 1.00 17.77	C
		CD1 PHE D 379		C
		CE1 PHE D 379		C
		CZ PHE D 379		С
		CE2 PHE D 379		C
		CD2 PHE D 379	44.623 110.486 65.473 1.00 16.28	С
		C PHE D 379	44.444 107.085 68.237 1.00 19.48	C
ATOM	13954	O PHE D 379	45.507 106.467 68.067 1.00 18.89	Ο
		N SER D 380	43.355 106.536 68.773 1.00 20.73	N
ATOM	13957	CA SER D 380	43.291 105.140 69.175 1.00 22.12	C
ATOM	13959	CB SER D 380	42.420 104.992 70.402 1.00 22.33	C
ATOM	13962	OG SER D 380	42.986 105.676 71.489 1.00 23.06	Ο
ATOM	13964	C SER D 380	42.691 104.347 68.029 1.00 23.01	C
ATOM	13965	O SER D 380	41.533 104.555 67.626 1.00 22.89	O
ATOM	13966	N ALA D 381	43.486 103.446 67.487 1.00 23.95	N
ATOM	13968	CA ALA D 381	43.197 102.911 66.170 1.00 24.86	C
ATOM	13970	CB ALA D 381	44.492 102.384 65.538 1.00 24.88	C
ATOM	13974	C ALA D 381	42.115 101.817 66.268 1.00 25.60	C
ATOM	13975	O ALA D 381	41.365 101.554 65.296 1.00 26.24	0
		N ASP D 382	42.017 101.233 67.467 1.00 25.73	N
ATOM	13978	CA ASP D 382	41.087 100.138 67.785 1.00 25.68	С
		CB ASP D 382	41.688 99.351 68.929 1.00 25.77	Č
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ATOM	13983	CG ASP D 382	41.538 100.071 70.217 1.00 26.58	С
		OD1 ASP D 382	41.974 101.227 70.325 1.00 24.92	0
-		OD2 ASP D 382	40.909 99.570 71.157 1.00 33.53	O
_		C ASP D 382	39.670 100.569 68.217 1.00 25.05	C
		O ASP D 382	38.994 99.837 68.939 1.00 25.29	Ō
-		N ARG D 383	39.223 101.749 67.802 1.00 24.36	N
		CA ARG D 383	37.887 102.194 68.138 1.00 23.67	C
		CB ARG D 383	37.723 103.687 67.917 1.00 23.35	Č
		CG ARG D 383	38.606 104.525 68.764 1.00 22.04	Č
		CD ARG D 383	38.377 104.330 70.242 1.00 21.22	Č
		NE ARG D 383	38.854 105.473 71.003 1.00 21.38	N
		CZ ARG D 383	38.749 105.602 72.320 1.00 20.71	Ċ
		NH1 ARG D 383	38.177 104.654 73.044 1.00 18.63	N
		NH2 ARG D 383	39.223 106.704 72.902 1.00 21.51	N
		C ARG D 383	36.953 101.493 67.211 1.00 23.94	C .
		O ARG D 383	37.333 101.137 66.107 1.00 23.91	ŏ
		N PRO D 384	35.707 101.357 67.614 1.00 24.37	N
		CA PROD 384	34.717 100.764 66.727 1.00 24.50	C
		CB PRO D 384	33.404 100.906 67.508 1.00 24.50	Č
		CG PRO D 384	33.796 101.100 68.909 1.00 24.66	Č
		CD PRO D 384	35.114 101.802 68.887 1.00 24.73	Č
		C PRO D 384	34.655 101.576 65.443 1.00 24.46	C
		O PRO D 384	34.892 102.789 65.477 1.00 24.80	Ö
		N ASN D 385	34.364 100.895 64.336 1.00 24.41	N
		CA ASN D 385	33.988 101.519 63.048 1.00 24.06	C
		CB ASN D 385	32.684 102.335 63.209 1.00 24.13	Č
		CG ASN D 385	31.483 101.442 63.519 1.00 24.57	Č
		OD1 ASN D 385	31.241 100.474 62.811 1.00 25.47	O
		ND2 ASN D 385	30.748 101.753 64.583 1.00 24.61	N
		C ASN D 385	35.081 102.312 62.327 1.00 23.13	C
		O ASN D 385		Ō
		N VAL D 386	36.333 102.115 62.711 1.00 22.23	N
		CA VAL D 386	37.432 102.819 62.085 1.00 21.64	C
		CB VALD 386	38.597 102.868 63.009 1.00 21.89	C
		CG1 VAL D 386	39.801 103,489 62.308 1.00 23.24	C
		CG2 VAL D 386	38.236 103.653 64.260 1.00 22.08	C
		C VAL D 386	37.885 102.117 60.822 1.00 21.29	С
		O VAL D 386	38.262 100.962 60.871 1.00 20.91	O
		N GLN D 387	37.870 102.840 59.706 1.00 21.17	N
ATOM	14058	CA GLN D 387	38.274 102.337 58.382 1.00 21.11	С
ATOM	14060	CB GLN D 387	37.755 103.298 57.316 1.00 21.60	С
ATOM	14063	CG GLN D 387	36.228 103.474 57.271 1.00 23.84	С
ATOM	14066	CD GLN D 387	35.442 102.152 57.315 1.00 26.84	C
		OE1 GLN D 387	35.231 101.587 58.402 1.00 29.70	О
		NE2 GLN D 387	34.983 101.681 56.151 1.00 26.87	N
		C GLN D 387	39.790 102.150 58.138 1.00 20.46	С
ATOM			40.206 101.134 57.551 1.00 20.17	0
		N GLU D 388	40.598 103.122 58.578 1.00 19.57	N

ATOM 14075 CA GLU D 388 42.057 103.106 58.374 1.00 19.19 C ATOM 14077 CB GLU D 388 42.469 104.335 57.573 1.00 19.45 C ATOM 14080 CG GLU D 388 41.610 104.524 56.323 1.00 21.28 C ATOM 14083 CD GLU D 388 42.299 105.317 55.207 1.00 22.49 C ATOM 14084 OEI GLU D 388 42.265 106.564 55.252 1.00 22.05 0 ATOM 14085 OE2 GLU D 388 42.874 104.695 54.281 1.00 23.94 0 ATOM 14086 C GLU D 388 42.840 103.030 59.684 1.00 18.12 C ATOM 14087 O GLU D 388 43.472 103.984 60.101 1.00 18.05 O ATOM 14088 N PRO D 389 42.800 101.896 60.357 1.00 17.29 N ATOM 14089 CA PRO D 389 43.466 101.816 61.649 1.00 16.81 C ATOM 14091 CB PRO D 389 43.156 100.416 62.141 1.00 17.09 C ATOM 14094 CG PRO D 389 42.733 99.631 60.902 1.00 17.43 C ATOM 14097 CD PRO D 389 42.123 100.640 59.984 1.00 17.25 C ATOM 14100 C PRO D 389 44.924 102.000 61.470 1.00 16.76 C ATOM 14101 O PRO D 389 45.491 102.671 62.276 1.00 17.36 0 ATOM 14102 N GLY D 390 45.517 101.430 60.435 1.00 16.78 N ATOM 14104 CA GLY D 390 46.900 101.702 60.098 1.00 16.85 C ATOM 14107 C GLY D 390 47.293 103.169 60.158 1.00 17.28 C ATOM 14108 O GLY D 390 48.261 103.524 60.809 1.00 17.15 0 ATOM 14109 N ARG D 391 46.527 104.017 59.489 1.00 18.14 N ATOM 14111 CA ARG D 391 46.796 105.440 59.439 1.00 19.06 C ATOM 14113 CB ARG D 391 45.861 106.150 58.473 1.00 19.79 C ATOM 14116 CG ARG D 391 46.235 105.856 57.027 1.00 24.81 C ATOM 14119 CD ARG D 391 45.343 106.479 55.937 1.00 31.08 C ATOM 14122 NE ARG D 391 44.909 107.848 56.239 1.00 35.63 N ATOM 14124 CZ ARG D 391 45.682 108.922 56.164 1.00 39.19 C ATOM 14125 NH1 ARG D 391 46.950 108.832 55.783 1.00 41.56 N ATOM 14128 NH2 ARG D 391 45.182 110.100 56.481 1.00 39.96 N ATOM 14131 C ARG D 391 46.624 106.037 60.774 1.00 18.88 C ATOM 14132 O ARG D 391 47.399 106.881 61.144 1.00 18.53 0 ATOM 14133 N VAL D 392 45.605 105.609 61.511 1.00 19.28 N ATOM 14135 CA VAL D 392 45.350 106.198 62.827 1.00 19.65 C ATOM 14137 CB VAL D 392 43.978 105.775 63.400 1.00 19.47 C ATOM 14139 CG1 VAL D 392 43.740 106.387 64.752 1.00 18.81 C ATOM 14143 CG2 VAL D 392 42.846 106.211 62.462 1.00 19.77 C ATOM 14147 C VAL D 392 46.523 105.888 63.790 1.00 20.35 C ATOM 14148 O VAL D 392 47.021 106.782 64.482 1.00 20.30 0 ATOM 14149 N GLU D 393 46.988 104.639 63.776 1.00 21.00 N ATOM 14151 CA GLU D 393 48.068 104.174 64.638 1.00 21.57 C ATOM 14153 CB GLU D 393 48.298 102.681 64.426 1.00 22.36 \mathbf{C} ATOM 14156 CG GLU D 393 49.419 102.065 65.247 1.00 25.56 C ATOM 14159 CD GLU D 393 49.519 100.549 65.063 1.00 29.06 C ATOM 14160 OE1 GLU D 393 49.371 99.839 66.065 1.00 31.45 0 ATOM 14161 OE2 GLU D 393 49.750 100.055 63.927 1.00 32.11 0 ATOM 14162 C GLU D 393 49.333 104.933 64.350 1.00 21.24 C ATOM 14163 O GLU D 393 50.125 105.144 65.266 1.00 20.96 0 ATOM 14164 N ALA D 394 49.507 105.371 63.089 1.00 21.14 N ATOM 14166 CA ALA D 394 50.725 106.095 62.661 1.00 20.32 C

A	TOM	14168	CB ALA D 394	50.885 106.078 61.201 1.00 19.69	С
Α	MOT	14172	C ALA D 394	50.694 107.510 63.153 1.00 20.38	C
Α	TOM	14173	O ALA D 394	51.729 108.057 63.510 1.00 20.59	0
Α	TOM	14174	N LEU D 395	49.505 108.098 63.196 1.00 20.47	N
Α	TOM	14176	CA LEU D 395	49.336 109.420 63.790 1.00 20.77	С
Α	TOM	14178	CB LEU D 395	47.928 109.938 63.560 1.00 20.81	C
			CG LEU D 395	47.649 110.100 62.087 1.00 22.26	С
A	TOM	14183	CD1 LEU D 395	46.175 110.293 61.869 1.00 23.63	C
Α	TOM	14187	CD2 LEU D 395	48.419 111.258 61.546 1.00 24.74	C
Α	TOM	14191	C LEU D 395	49.597 109.397 65.302 1.00 20.59	С
Α	TOM	14192	O LEU D 395	50.116 110.375 65.858 1.00 20.26	0
Α	TOM	14193	N GLN D 396	49.251 108.293 65.960 1.00 19.73	N
A	TOM	14195	CA GLN D 396	49.356 108.260 67.403 1.00 20.05	С
A	TOM	14197	CB GLN D 396	48.667 107.012 68.017 1.00 20.37	C
A	TOM	14200	CG GLN D 396	48.454 107.124 69.537 1.00 20.06	С
A	TOM	14203	CD GLN D 396	47.979 105.861 70.193 1.00 20.29	С
Α	TOM	14204	OE1 GLN D 396	46.858 105.815 70.696 1.00 20.80	0
Α	TOM	14205	NE2 GLN D 396	48.835 104.857 70.247 1.00 19.12	N
Α	TOM	14208	C GLN D 396	50.806 108.305 67.826 1.00 19.83	C
A	TOM	14209	O GLN D 396	51.114 108.806 68.894 1.00 19.67	0
Α	TOM	14210	N GLN D 397	51.685 107.784 66.981 1.00 19.67	N
Α	TOM	14212	CA GLN D 397	53.069 107.597 67.358 1.00 19.66	С
A	TOM	14214	CB GLN D 397	53.829 106.839 66.275 1.00 19.92	C
Α	TOM	14217	CG GLN D 397	55.225 106.447 66.705 1.00 22.13	С
Α	TOM	14220	CD GLN D 397	56.027 105.832 65.573 1.00 24.57	С
Α	TOM	14221	OE1 GLN D 397	55.676 104.737 65.095 1.00 27.99	0
Α	TOM	14222	NE2 GLN D 397	57.090 106.521 65.130 1.00 22.32	N
Α	TOM	14225	C GLN D 397	53.790 108.884 67.776 1.00 18.93	C
A	TOM	14226	O GLN D 397	54.280 108.948 68.882 1.00 18.95	O
A	TOM	14227	N PRO D 398	53.881 109.911 66.940 1.00 18.52	N
A	TOM	14228	CA PRO D 398	54.614 111.125 67.343 1.00 18.04	C
A	TOM	14230	CB PRO D 398	54.289 112.146 66.236 1.00 17.79	C
A	TOM	14233	CG PRO D 398	53.418 111.502 65.290 1.00 18.23	C
A	TOM	14236	CD PRO D 398	53.354 110.017 65.574 1.00 18.57	C
A	TOM	14239	C PRO D 398	54.204 111.678 68.711 1.00 17.72	С
A	TOM	14240	O PRO D 398	55.055 112.182 69.418 1.00 17.84	Ο
A	TOM	14241	N TYR D 399	52.927 111.601 69.065 1.00 17.81	N
Α	TOM	14243	CA TYR D 399	52.430 112.085 70.360 1.00 17.76	C
Α	TOM	14245	CB TYR D 399	50.904 112.210 70.347 1.00 17.88	C
Α	TOM	14248	CG TYR D 399	50.423 113.203 69.330 1.00 18.22	С
A	TOM	14249	CD1 TYR D 399	49.900 112.788 68.120 1.00 18.17	С
Α	TOM	14251	CE1 TYR D 399	49.476 113.688 67.186 1.00 17.27	С
A	TOM	14253	CZ TYR D 399	49.572 115.031 67.443 1.00 18.04	C
A	TOM	14254	OH TYR D 399	49.155 115.953 66.493 1.00 17.86	0
A	TOM	14256	CE2 TYR D 399	50.086 115.469 68.641 1.00 17.94	С
A	TOM	14258	CD2 TYR D 399	50.516 114.560 69.566 1.00 18.61	С
A	TOM	14260	C TYR D 399	52.870 111.231 71.536 1.00 17.45	С
Α	TOM	14261	O TYR D 399	53.166 111.781 72.563 1.00 17.11	O

ATOM	14262 N VAL D 400	52.889 109.903 71.383 1.00 17.74	N
ATOM	14264 CA VAL D 400	53.475 108.999 72.372 1.00 18.33	С
ATOM	14266 CB VAL D 400	53.382 107.504 71.998 1.00 18.16	C
ATOM	14268 CG1 VAL D 400	54.016 106.663 73.066 1.00 18.08	С
ATOM	14272 CG2 VAL D 400	51.950 107.048 71.791 1.00 18.79	С
	14276 C VALD 400	54.954 109.321 72.540 1.00 19.34	С
	14277 O VAL D 400	55.375 109.541 73.667 1.00 20.53	Ō
	14278 N GLU D 401	55.748 109.327 71.456 1.00 19.54	N
	14280 CA GLU D 401	57.165 109.730 71.513 1.00 20.05	C
	14282 CB GLU D 401	57.768 109.846 70.103 1.00 20.71	C
	14285 CG GLU D 401	58.174 108.538 69.449 1.00 23.83	C
	14288 CD GLU D 401	58.507 108.676 67.962 1.00 27.86	C
	14289 OE1 GLU D 401	58.158 107.761 67.168 1.00 29.33	0
	14290 OE2 GLU D 401	59.124 109.693 67.572 1.00 30.78	Ö
	14291 C GLU D 401	57.386 111.067 72.235 1.00 19.70	C
	14292 O GLU D 401	58.376 111.258 72.944 1.00 19.28	Ö
	14293 N ALA D 402	56.466 111.996 72.026 1.00 19.60	Ň
	14295 CA ALA D 402	56.605 113.336 72.554 1.00 19.82	C
	14297 CB ALA D 402	55.639 114.281 71.874 1.00 19.93	Č
	14301 C ALA D 402	56.366 113.321 74.046 1.00 19.90	C
	14302 O ALA D 402	57.041 114.027 74.790 1.00 19.68	Ō
	14303 N LEU D 403	55.397 112.516 74.486 1.00 20.33	N
	14305 CA LEU D 403	55.117 112.341 75.932 1.00 20.21	C
	14307 CB LEU D 403	53.797 111.622 76.156 1.00 19.89	Ċ
	14310 CG LEU D 403	53.272 111.494 77.583 1.00 19.78	Č
	14312 CD1 LEU D 403	53.147 112.824 78.312 1.00 19.37	C
	14316 CD2 LEU D 403	51.928 110.778 77.535 1.00 20.17	C
	14320 C LEU D 403	56.250 111.598 76.628 1.00 20.40	C
	14321 O LEU D 403	56.647 111.944 77.744 1.00 19.78	O
	14322 N LEU D 404	56.787 110.599 75.940 1.00 20.87	N
	14324 CA LEU D 404	57.922 109.874 76.446 1.00 21.50	C
	14326 CB LEU D 404	58.307 108.735 75.505 1.00 22.00	C
	14329 CG LEU D 404	59.590 107.976 75.858 1.00 23.85	C
	14331 CD1 LEU D 404	59.647 107.648 77.336 1.00 24.72	С
	14335 CD2 LEU D 404	59.686 106.722 75.012 1.00 25.57	C
	14339 C LEU D 404	59.065 110.849 76.629 1.00 21.29	C
	14340 O LEU D 404	59.571 110.981 77.735 1.00 21.48	O
	14341 N SER D 405	59.467 111.540 75.562 1.00 21.06	N
	14343 CA SER D 405	60.562 112.515 75.675 1.00 20.85	С
	14345 CB SER D 405	60.822 113.286 74.361 1.00 20.96	С
ATOM	14348 OG SER D 405	60.975 112.427 73.240 1.00 21.81	О
ATOM	14350 C SER D 405	60.244 113.517 76.784 1.00 20.13	С
	14351 O SER D 405	61.091 113.797 77.621 1.00 19.94	0
	14352 N TYR D 406	59.011 114.024 76.798 1.00 19.43	N
	14354 CA TYR D 406	58.646 115.094 77.702 1.00 18.84	С
	14356 CB TYR D 406	57.238 115.627 77.432 1.00 18.39	C
	14359 CG TYR D 406	56.862 116.741 78.386 1.00 17.05	С
ATOM	14360 CD1 TYR D 406	57.171 118.076 78.109 1.00 15.16	C

ATOM	14362	CE1 TYR D 406	56.833 119.082 78.995 1.00 14.91	С
ATOM	14364	CZ TYR D 406	56.206 118.754 80.188 1.00 16.13	С
ATOM	14365	OH TYR D 406	55.846 119.695 81.104 1.00 14.27	О
ATOM	14367	CE2 TYR D 406	55.906 117.447 80.482 1.00 16.65	С
ATOM	14369	CD2 TYR D 406	56.232 116.453 79.584 1.00 16.33	С
		C TYR D 406	58.746 114.666 79.142 1.00 19.41	C
		O TYR D 406	59.028 115.485 79.976 1.00 19.36	Ō
		N THR D 407	58.493 113.396 79.444 1.00 20.52	N
		CA THR D 407		C
		CB THR D 407		Č
		OG1 THR D 407		0
		CG2 THR D 407		Č
		C THR D 407	59.906 112.630 81.289 1.00 22.45	C
		O THR D 407	60.283 112.953 82.408 1.00 22.09	O
		N ARG D 408	60.701 112.039 80.403 1.00 24.36	N
		CA ARG D 408	62.096 111.730 80.698 1.00 26.24	С
ATOM	14391	CB ARG D 408	62.793 111.078 79.486 1.00 26.81	C
ATOM	14394	CG ARG D 408	64.370 111.225 79.434 1.00 30.29	C
		CD ARG D 408	65.132 110.223 78.489 1.00 34.24	C
		NE ARG D 408	64.408 108.944 78.269 1.00 37.86	N
		CZ ARG D 408	63.554 108.681 77.252 1.00 38.72	С
ATOM	14403	NH1 ARG D 408	63.292 109.603 76.318 1.00 39.53	N
ATOM	14406	NH2 ARG D 408	62.956 107.486 77.169 1.00 37.88	N
ATOM	14409	C ARG D 408	62.817 112.997 81.095 1.00 27.27	С
ATOM	14410	O ARG D 408	63.692 112.956 81.959 1.00 27.78	O
ATOM	14411	N ILE D 409	62.431 114.115 80.464 1.00 28.53	N
ATOM	14413	CA ILE D 409	63.077 115.424 80.630 1.00 29.10	С
ATOM	14415	CB ILE D 409	63.066 116.182 79.281 1.00 29.21	С
ATOM	14417	CG1 ILE D 409	64.268 115.730 78.431 1.00 29.57	С
ATOM	14420	CD1 ILE D 409	64.193 116.098 76.959 1.00 29.86	С
ATOM	14424	CG2 ILE D 409	63.061 117.705 79.493 1.00 29.59	С
ATOM	14428	C ILE D 409	62.487 116.276 \$1.765 1.00 29.69	С
ATOM	14429	O ILE D 409	63.228 116.746 82.592 1.00 29.72	O
ATOM	14430	N LYS D 410	61.178 116.487 81.800 1.00 30.89	N
ATOM	14432	CA LYS D 410	60.531 117.179 82.918 1.00 32.02	С
ATOM	14434	CB LYS D 410	59.002 117.161 82.774 1.00 32.44	С
ATOM	14437	CG LYS D 410	58.190 117.327 84.113 1.00 32.79	C
ATOM	14440	CD LYS D 410	56.837 116.581 84.104 1.00 31.65	C
ATOM	14443	CE LYS D 410	55.787 117.260 85.007 1.00 30.17	С
ATOM	14446	NZ LYS D 410	56.117 117.221 86.431 1.00 28.02	N
ATOM	14450	C LYS D 410	60.875 116.538 84.243 1.00 33.11	C
ATOM	14451	O LYS D 410	61.362 117.206 85.148 1.00 33.27	O
ATOM	14452	N ARG D 411	60.585 115.245 84.363 1.00 34.55	N
ATOM	14454	CA ARG D 411	60.703 114.520 85.639 1.00 35.80	C
ATOM	14456	CB ARG D 411	59.308 114.044 86.094 1.00 36.44	C
ATOM	14459	CG ARG D 411	58.489 115.071 86.893 1.00 39.72	C
ATOM	14462	CD ARG D 411	58.082 114.617 88.323 1.00 44.12	C
ATOM	14465	NE ARG D 411	56.621 114.515 88.483 1.00 47.54	N

ATOM	14467	CZ ARG D 411	55.999 114.009 89.559 1.00 50.05	С
ATOM	14468	NH1 ARG D 411	56.695 113.552 90.609 1.00 50.31	N
ATOM	14471	NH2 ARG D 411	54.663 113.974 89.588 1.00 50.69	N
ATOM	14474	C ARG D 411	61.636 113.306 85.530 1.00 35.61	C
		O ARG D 411	61.169 112.168 85.573 1.00 35.68	0
ATOM	14476	N PRO D 412	62.947 113.518 85.419 1.00 35.51	N
		CA PRO D 412		C
		CB PRO D 412	65.249 113.049 85.043 1.00 35.48	Č
		CG PRO D 412	65.101 114.467 85.498 1.00 35.29	Č
		CD PRO D 412	63.656 114.800 85.575 1.00 35.29	Č
		C PRO D 412	63.811 111.271 86.211 1.00 35.66	C
		O PRO D 412	64.209 110.132 85.929 1.00 35.74	Ö
		N GLN D 413	63.280 111.594 87.394 1.00 35.64	N
		CA GLN D 413		C
		CB GLN D 413	63.624 111.604 89.827 1.00 35.43	Č
		CG GLN D 413	64.420 112.883 89.582 1.00 35.38	Č
		CD GLN D 413	65.705 112.904 90.352 1.00 35.03	Č
		OE1 GLN D 413	65.725 113.297 91.515 1.00 34.71	Ŏ
		NE2 GLN D 413	66.788 112.476 89.712 1.00 35.14	N
		C GLN D 413	62.107 109.877 88.846 1.00 35.14	C
		O GLN D 413	62.034 109.185 89.868 1.00 35.15	Ö
		N ASP D 414	61.124 109.937 87.952 1.00 34.61	Ň
		CA ASP D 414	59.931 109.106 88.057 1.00 34.34	C
		CB ASP D 414	58.702 109.985 88.325 1.00 34.59	Č
		CG ASP D 414	57.478 109.181 88.766 1.00 35.67	C
ATOM	14515	OD1 ASP D 414	57.651 108.168 89.474 1.00 35.66	0
		OD2 ASP D 414	56.296 109.494 88.467 1.00 37.51	0
ATOM	14517	C ASP D 414	59.774 108.314 86.762 1.00 33.63	С
		O ASP D 414		0
ATOM	14519	N GLN D 415	60.427 107.159 86.676 1.00 33.06	N
ATOM	14521	CA GLN D 415	60.407 106.343 85.453 1.00 32.58	C
ATOM	14523	CB GLN D 415	61.481 105.242 85.500 1.00 32.89	С
ATOM	14526	CG GLN D 415	62.742 105.530 84.689 1.00 33.42	C
		CD GLN D 415		С
ATOM	14530	OE1 GLN D 415	63.678 103.410 84.069 1.00 34.50	0
ATOM	14531	NE2 GLN D 415	64.742 104.551 85.685 1.00 34.30	N
ATOM	14534	C GLN D 415	59.034 105.706 85.198 1.00 31.88	С
ATOM	14535	O GLN D 415	58.685 105.460 84.044 1.00 31.77	О
ATOM	14536	N LEU D 416	58.268 105.459 86.268 1.00 30.95	N
ATOM	14538	CA LEU D 416	56.920 104.880 86.177 1.00 30.43	С
ATOM	14540	CB LEU D 416	56.521 104.222 87.489 1.00 30.43	С
ATOM	14543	CG LEU D 416	57.531 103.266 88.119 1.00 31.29	C
ATOM	14545	CD1 LEU D 416	57.081 102.858 89.539 1.00 31.25	С
ATOM	14549	CD2 LEU D 416	57.737 102.053 87.210 1.00 31.92	C
ATOM	14553	C LEU D 416	55.839 105.898 85.858 1.00 29.89	C
ATOM	14554	O LEU D 416	54.700 105.549 85.668 1.00 30.26	0
			56.192 107.166 85.845 1.00 29.36	N
ATOM	14557	CA ARG D 417	55.268 108.235 85.513 1.00 28.75	C

ATOM	14559	CB ARG D 417	56.056 109.542 85.476 1.00 29.25	С
ATOM	14562	CG ARG D 417	55.308 110.758 85.888 1.00 31.25	C
		CD ARG D 417	55.780 112.009 85.138 1.00 33.19	С
		NE ARG D 417	55.266 113.199 85.785 1.00 34.76	N
		CZ ARG D 417	53.993 113.513 85.807 1.00 37.31	C
			53.109 112.745 85.184 1.00 39.76	N
		NH2 ARG D 417	53.588 114.610 86.426 1.00 38.44	N
		C ARG D 417	54.618 107.990 84.148 1.00 27.48	C
		O ARG D 417	53.385 107.942 84.021 1.00 27.07	Ö
		N PHE D 418	55.457 107.834 83.127 1.00 25.85	N
		CA PHE D 418	54.958 107.667 81.766 1.00 24.54	C
		CB PHE D 418	56.122 107.534 80.769 1.00 24.61	Č
		CG PHE D 418	55.696 107.188 79.378 1.00 23.32	Č
			54.917 108.078 78.641 1.00 22.26	C
		CE1 PHE D 418	54.518 107.786 77.357 1.00 22.16	Č
		CZ PHE D 418	54.891 106.587 76.783 1.00 24.31	C
		CE2 PHE D 418	55.679 105.676 77.526 1.00 25.48	C
		CD2 PHE D 418	56.076 105.989 78.810 1.00 23.20	Č
		C PHE D 418	53.974 106.500 81.655 1.00 23.42	С
		O PHE D 418	52.875 106.688 81.148 1.00 22.44	Ö
		N PRO D 419	54.361 105.298 82.096 1.00 22.50	N
		CA PRO D 419	53,443 104.152 82.092 1.00 21.99	C
		CB PRO D 419	54.321 102.995 82.532 1.00 21.81	Č
		CG PRO D 419	55.475 103.565 83.062 1.00 22.24	Č
		CD PRO D 419	55.711 104.889 82.483 1.00 22.02	Č
		C PRO D 419	52.198 104.274 82.958 1.00 21.58	C
		O PRO D 419	51.164 103.814 82.550 1.00 20.83	Ö
		N ARG D 420	52.267 104.906 84.102 1.00 21.99	N
		CA ARG D 420	51.044 105.174 84.843 1.00 23.26	C
		CB ARG D 420	51.349 105.893 86.160 1.00 23.88	Ċ
		CG ARG D 420		Č
		CD ARG D 420	51.849 105.581 88.622 1.00 29.60	Č
		NE ARG D 420	53.001 105.155 89.403 1.00 32.35	N
		CZ ARG D 420	54.079 105.901 89.662 1.00 35.11	C
		NH1 ARG D 420	54.197 107.158 89.217 1.00 35.49	N
		NH2 ARG D 420	55.056 105.378 90.398 1.00 36.26	N
		C ARG D 420	50.037 106.008 84.047 1.00 23.47	С
		O ARG D 420	48.821 105.857 84.213 1.00 23.23	0
		N MET D 421	50.539 106.904 83.205 1.00 23.89	N
		CA MET D 421	49.664 107.759 82.417 1.00 24.26	С
-		CB MET D 421	50.419 108.942 81.815 1.00 24.93	Č
		CG MET D 421	51.175 109.808 82.828 1.00 26.72	C
		SD MET D 421	52.122 111.087 82.001 1.00 29.13	S
		CE MET D 421	50.840 111.852 81.119 1.00 31.24	Č
		C MET D 421	49.016 106.984 81.306 1.00 23.71	C
		O MET D 421	47.846 107.178 81.053 1.00 23.34	Ö
		N LEU D 422	49,778 106.117 80.636 1.00 23.83	N
		CA LEU D 422	49.211 105.221 79.611 1.00 23.76	C
				_

ATOM 14658	CB LEU D 422	50.283 104.347 78.963 1.00 23.64	C
ATOM 14661	CG LEU D 422	51.351 105.058 78.132 1.00 24.63	C
ATOM 14663	CD1 LEU D 422	52.224 104.051 77.470 1.00 26.16	C
ATOM 14667	CD2 LEU D 422	50.771 105.927 77.085 1.00 25.19	C
ATOM 14671	C LEU D 422	48.141 104.335 80.217 1.00 23.44	С
ATOM 14672	O LEU D 422	47.150 104.031 79.586 1.00 23.45	0
ATOM 14673	N MET D 423	48.326 103.952 81.464 1.00 23.51	N
ATOM 14675	CA MET D 423	47.413 103.037 82.103 1.00 23.89	С
ATOM 14677	CB MET D 423	48.065 102.407 83.324 1.00 24.92	C
ATOM 14680	CG MET D 423	48.117 100.894 83.262 1.00 29.02	C
ATOM 14683	SD MET D 423	49.756 100.266 82.996 1.00 36.10	S
ATOM 14684	CE MET D 423	50.270 100.108 84.644 1.00 35.85	C
ATOM 14688	C MET D 423	46.125 103.730 82.488 1.00 22.97	C
ATOM 14689	O MET D 423	45.111 103.097 82.699 1.00 22.90	O
ATOM 14690	N LYS D 424	46.131 105.042 82.569 1.00 22.20	N
ATOM 14692	CA LYS D 424	44.872 105.722 82.782 1.00 21.40	C
ATOM 14694	CB LYS D 424	45.105 107.150 83.278 1.00 21.57	Ç
ATOM 14697	CG LYS D 424	45.961 107.252 84.560 1.00 21.85	C
ATOM 14700	CD LYS D 424	45.176 106.906 85.803 1.00 23.55	C
ATOM 14703	CE LYS D 424	46.086 106.499 86.958 1.00 26.09	C
ATOM 14706	NZ LYS D 424	46.502 105.039 86.931 1.00 25.70	N
ATOM 14710	C LYS D 424	44.026 105.664 81.485 1.00 20.77	C
ATOM 14711	O LYS D 424	42.799 105.745 81.557 1.00 20.70	O
ATOM 14712	N LEU D 425	44.655 105.508 80.311 1.00 19.71	N
ATOM 14714	CA LEU D 425	43.888 105.269 79.056 1.00 19.37	C
ATOM 14716	CB LEU D 425	44.767 105.258 77.786 1.00 19.22	C
ATOM 14719	CG LEU D 425	45.631 106.510 77.569 1.00 19.46	C
ATOM 14721	CD1 LEU D 425	46.741 106.209 76.606 1.00 20.06	C
ATOM 14725	CD2 LEU D 425	44.793 107.672 77.105 1.00 18.98	C
ATOM 14729	C LEU D 425	43.117 103.956 79.138 1.00 18.66	C
ATOM 14730	O LEU D 425	42.015 103.834 78.597 1.00 18.91	0
ATOM 14731	N VAL D 426	43.704 102.982 79.828 1.00 17.67	N
ATOM 14733	CA VALD 426	43.076 101.685 80.040 1.00 16.70	C
ATOM 14735	CB VAL D 426	44.030 100.736 80.747 1.00 16.59	C
ATOM 14737	CG1 VAL D 426	43.374 99.410 80.951 1.00 16.22	C
ATOM 14741	CG2 VAL D 426	45.325 100.574 79.950 1.00 16.64	C
ATOM 14745	C VAL D 426	41.835 101.872 80.897 1.00 16.09	C
ATOM 14746	O VAL D 426	40.722 101.485 80.524 1.00 14.69	O
ATOM 14747	N SER D 427	42.041 102.505 82.044 1.00 15.87	N
ATOM 14749	CA SER D 427	40.922 102.904 82.897 1.00 16.06	C
ATOM 14751	CB SER D 427	41.417 103.777 84.032 1.00 15.33	C
ATOM 14754	OG SER D 427	42.222 102.987 84.849 1.00 15.12	O
ATOM 14756	C SER D 427	39.811 103.624 82.127 1.00 16.35	C
ATOM 14757	O SER D 427	38.634 103.373 82.353 1.00 15.56	Ο
ATOM 14758	N LEU D 428	40.198 104.493 81.210 1.00 17.44	N
ATOM 14760	CA LEU D 428	39.234 105.305 80.471 1.00 18.87	C
ATOM 14762	CB LEU D 428	39.935 106.401 79.629 1.00 19.18	C
ATOM 14765	CG LEU D 428	40.366 107.614 80.448 1.00 19.96	C

ATOM	14767	CD1 LEU D 428	41.417 108.412 79.734 1.00 21.00	C
ATOM	14771	CD2 LEU D 428	39.153 108.468 80.740 1.00 21.25	C
ATOM	14775	C LEU D 428	38.334 104.440 79.593 1.00 19.28	С
ATOM	14776	O LEU D 428	37.184 104.791 79.387 1.00 19.13	O
ATOM	14777	N ARG D 429	38.846 103.318 79.085 1.00 19.93	N
ATOM	14779	CA ARG D 429	37.989 102.374 78.371 1.00 20.40	C
ATOM	14781	CB ARG D 429	38.795 101.180 77.848 1.00 20.56	С
ATOM	14784	CG ARG D 429	39.753 101.536 76.746 1.00 20.68	C
ATOM	14787	CD ARG D 429	39.084 102.241 75.590 1.00 22.12	C
ATOM	14790	NE ARG D 429	40.030 102.849 74.663 1.00 23.03	N
ATOM	14792	CZ ARG D 429	40.429 102.299 73.527 1.00 23.00	С
		NH1 ARG D 429	39.960 101.113 73.155 1.00 22.44	N
ATOM	14796	NH2 ARG D 429	41.294 102.948 72.758 1.00 22.24	N
ATOM	14799	C ARG D 429	36.876 101.892 79.269 1.00 20.37	C
		O ARG D 429	35.725 102.054 78.975 1.00 20.47	O
ATOM	14801	N THR D 430	37.241 101.304 80.388 1.00 20.88	N
ATOM	14803	CA THR D 430	36.261 100.795 81.311 1.00 20.80	C
ATOM	14805	CB THR D 430	36.964 100.260 82.527 1.00 20.78	C
ATOM	14807	OG1 THR D 430	37.642 99.059 82.162 1.00 20.52	Ο
ATOM	14809	CG2 THR D 430	35.968 99.830 83.570 1.00 21.13	C
ATOM	14813	C THR D 430	35.223 101.833 81.709 1.00 20.95	С
		O THR D 430	34.040 101.505 81.732 1.00 21.43	O
ATOM	14815	N LEU D 431	35.656 103.061 82.031 1.00 20.54	N
ATOM	14817	CA LEU D 431	34.749 104.140 82.477 1.00 20.19	C
		CB LEU D 431	35.526 105.346 83.034 1.00 20.21	C
ATOM	14822	CG LEU D 431	36.303 105.113 84.328 1.00 20.32	C
ATOM	14824	CD1 LEU D 431	37.465 106.062 84.469 1.00 20.58	C
ATOM	14828	CD2 LEU D 431	35.395 105.222 85.522 1.00 21.74	C
ATOM	14832	C LEU D 431	33.825 104.619 81.356 1.00 20.15	С
ATOM	14833	O LEU D 431	32.703 105.037 81.613 1.00 20.28	Ο
ATOM	14834	N SER D 432	34.304 104.570 80.119 1.00 19.98	N
ATOM	14836	CA SER D 432	33.454 104.740 78.954 1.00 20.33	С
ATOM	14838	CB SER D 432	34.276 104.563 77.686 1.00 20.57	C
		OG SER D 432	33.496 104.797 76.542 1.00 22.05	Ο
		C SER D 432	32.280 103.754 78.949 1.00 20.25	C
ATOM	14844	O SER D 432	31.147 104.144 78.686 1.00 20.04	О
ATOM	14845	N SER D 433	32.543 102.483 79.241 1.00 20.49	N
ATOM	14847	CA SER D 433	31.457 101.503 79.409 1.00 21.09	C
ATOM	14849	CB SER D 433	31.982 100.082 79.627 1.00 20.76	C
		OG SER D 433	32.633 99.597 78.477 1.00 21.59	Ο
ATOM	14854	C SER D 433	30.523 101.866 80.575 1.00 21.52	C
ATOM	14855	O SER D 433	29.292 101.731 80.455 1.00 21.68	О
		N VAL D 434	31.098 102.308 81.703 1.00 21.43	N
		CA VAL D 434	30.290 102.612 82.880 1.00 21.01	С
		CB VALD 434	31.151 102.911 84.139 1.00 20.94	C
		CG1 VAL D 434	30.306 103.477 85.278 1.00 19.93	C
		CG2 VAL D 434	31.849 101.639 84.591 1.00 20.57	С
		C VAL D 434	29.340 103.749 82.520 1.00 20.91	С

ATOM	14871	O VAL D 434	28.181 103.740 82.932 1.00 20.75	О
		N HIS D 435	29.812 104.690 81.709 1.00 20.77	N
ATOM	14874	CA HIS D 435	28.947 105.756 81.223 1.00 20.87	С
ATOM	14876	CB HIS D 435	29.755 106.781 80.437 1.00 20.96	С
ATOM	14879	CG HIS D 435	28.948 107.955 79.983 1.00 20.27	С
		ND1 HIS D 435	28.610 108.153 78.664 1.00 19.83	N
ATOM	14882	CE1 HIS D 435	27.899 109.261 78.564 1.00 20.87	С
		NE2 HIS D 435	27.768 109.787 79.768 1.00 19.82	N
		CD2 HIS D 435	28.412 108.989 80.673 1.00 19.48	С
		C HIS D 435	27.785 105.218 80.364 1.00 21.06	С
		O HIS D 435	26.653 105.667 80.513 1.00 20.43	O
ATOM	14890	N SER D 436	28.066 104.251 79.492 1.00 21.62	N
		CA SER D 436	27.048 103.693 78.597 1.00 22.25	C
		CB SER D 436	27.635 102.613 77.673 1.00 22.24	C
		OG SER D 436	28.544 103.161 76.746 1.00 22.26	O
		C SER D 436	25.900 103.098 79.376 1.00 23.00	С
		O SER D 436	24.731 103.265 79.004 1.00 22.72	O
		N GLU D 437	26.244 102.374 80.442 1.00 24.39	N
		CA GLU D 437	25.248 101.785 81.336 1.00 25.46	С
		CB GLU D 437	25.886 100.835 82.374 1.00 26.10	С
		CG GLU D 437	26.469 99.507 81.849 1.00 29.07	C
ATOM	14911	CD GLU D 437	27.834 99.149 82.489 1.00 33.54	C
		OE1 GLU D 437	28.743 98.623 81.792 1.00 35.86	Ο
ATOM	14913	OE2 GLU D 437	28.027 99.402 83.705 1.00 36.22	O
		C GLU D 437	24.473 102.911 82.029 1.00 25.31	С
ATOM	14915	O GLU D 437	23.283 102.795 82.201 1.00 25.02	О
ATOM	14916	N GLN D 438	25.149 104.004 82.391 1.00 25.86	N
ATOM	14918	CA GLN D 438	24.489 105.178 82.982 1.00 26.26	C
ATOM	14920	CB GLN D 438	25.511 106.198 83.535 1.00 25.96	С
ATOM	14923	CG GLN D 438	24.913 107.543 84.040 1.00 25.07	С
ATOM	14926	CD GLN D 438	23.981 107.423 85.262 1.00 23.70	С
ATOM	14927	OE1 GLN D 438	24.329 107.882 86.341 1.00 23.20	O
ATOM	14928	NE2 GLN D 438	22.802 106.843 85.078 1.00 20.30	N
		C GLN D 438	23.476 105.859 82.044 1.00 26.98	С
ATOM	14932	O GLN D 438	22.394 106.234 82.496 1.00 26.77	O
ATOM	14933	N VAL D 439	23.790 106.006 80.756 1.00 28.01	N
ATOM	14935	CA VAL D 439	22.793 106.566 79.825 1.00 29.01	C
ATOM	14937	CB VAL D 439	23.380 107.177 78.503 1.00 28.96	C
ATOM	14939	CG1 VAL D 439	24.868 107.455 78.621 1.00 29.12	C
ATOM	14943	CG2 VAL D 439	23.059 106.329 77.253 1.00 28.94	C
ATOM	14947	C VAL D 439	21.681 105.562 79.515 1.00 29.89	С
ATOM	14948	O VAL D 439	20.596 105.959 79.118 1.00 30.22	Ο
ATOM	14949	N PHE D 440	21.948 104.275 79.707 1.00 30.95	N
ATOM	14951	CA PHE D 440	20.925 103.243 79.536 1.00 31.85	С
ATOM	14953	CB PHE D 440	21.595 101.873 79.329 1.00 32.19	C
ATOM	14956	CG PHE D 440	20.629 100.727 79.119 1.00 32.84	C
ATOM	14957	CD1 PHE D 440	20.052 100.503 77.870 1.00 33.02	C
ATOM	14959	CE1 PHE D 440	19.169 99.434 77.679 1.00 33.73	С

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ATOM 14961 CZ PHE D 440 18.864 98.571 78.748 1.00 33.65 C ATOM 14963 CE2 PHE D 440 19.440 98.780 79.999 1.00 33.58 C ATOM 14965 CD2 PHE D 440 20.323 99.850 80.178 1.00 34.01 C ATOM 14967 C PHE D 440 19.955 103.201 80.728 1.00 32.06 C ATOM 14968 O PHE D 440 18.838 102.719 80.588 1.00 32.15 0 ATOM 14969 N ALA D 441 20.370 103.711 81.886 1.00 32.36 N ATOM 14971 CA ALA D 441 19.538 103.664 83.087 1.00 32.82 C ATOM 14973 CB ALA D 441 20.377 103.888 84.327 1.00 32.64 C ATOM 14977 C ALA D 441 18.414 104.696 83.010 1.00 33.50 C ATOM 14978 O ALA D 441 17.235 104.359 83.161 1.00 33.86 0 ATOM 14979 N LEU D 442 18.786 105.952 82.776 1.00 34.19 N ATOM 14981 CA LEU D 442 17.814 107.021 82.533 1.00 34.50 C ATOM 14983 CB LEU D 442 18.474 108.413 82.454 1.00 34.50 C ATOM 14986 CG LEU D 442 19.975 108.588 82.129 1.00 33.86 C ATOM 14988 CD1 LEU D 442 20.188 109.612 81.037 1.00 33.44 C ATOM 14992 CD2 LEU D 442 20.760 108.988 83.370 1.00 33.45 \mathbf{C} ATOM 14996 C LEU D 442 17.008 106.750 81.261 1.00 35.15 C ATOM 14997 O LEU D 442 15.887 107.229 81.148 1.00 35.60 0 ATOM 14998 N ARG D 443 17.573 105.987 80.317 1.00 35.82 N ATOM 15000 CA ARG D 443 16.841 105.517 79.125 1.00 36.37 C ATOM 15002 CB ARG D 443 17.797 105.356 77.923 1.00 36.58 \mathbf{C} ATOM 15005 CG ARG D 443 17.097 105.137 76.553 1.00 38.14 C ATOM 15008 CD ARG D 443 16.997 103.655 76.076 1.00 39.77 C ATOM 15011 NE ARG D 443 17.251 103.509 74.638 1.00 40.64 N ATOM 15013 CZ ARG D 443 18.456 103.611 74.053 1.00 41.64 \mathbf{C} ATOM 15014 NH1 ARG D 443 19.564 103.859 74.761 1.00 41.55 N ATOM 15017 NH2 ARG D 443 18.553 103.465 72.739 1.00 41.66 N ATOM 15020 C ARG D 443 16.101 104.189 79.388 1.00 36.19 C ATOM 15021 O ARG D 443 15.027 104.153 80.001 1.00 35.94 0 ATOM 15022 N. LYS D 448 15.998 111.025 79.247 1.00 25.17 N ATOM 15024 CA LYS D 448 16.215 111.075 77.810 1.00 25.29 \mathbf{C} ATOM 15026 CB LYS D 448 14.890 111.330 77.087 1.00 25.32 C ATOM 15029 CG LYS D 448 14.022 110.071 76.873 1.00 25.72 C ATOM 15032 CD LYS D 448 12.780 109.988 77.802 1.00 25.03 C 12.612 108.584 78.394 1.00 24.27 ATOM 15035 CE LYS D 448 C ATOM 15038 NZ LYS D 448 11.754 108.554 79.610 1.00 23.62 N ATOM 15042 C LYS D 448 17.243 112.154 77.448 1.00 25.39 C ATOM 15043 O LYS D 448 17.111 113.311 77.833 1.00 25.06 O ATOM 15044 N LEU D 449 18.269 111.757 76.699 1.00 25.86 N ATOM 15046 CA LEU D 449 19.361 112.652 76.323 1.00 26.04 C ATOM 15048 CB LEU D 449 20.559 111.864 75.806 1.00 25.94 C ATOM 15051 CG LEU D 449 21.493 111.168 76.782 1.00 26.55 C ATOM 15053 CD1 LEU D 449 22.818 110.928 76.073 1.00 27.14 C ATOM 15057 CD2 LEU D 449 21.715 111.946 78.057 1.00 26.67 C ATOM 15061 C LEU D 449 18.964 113.622 75.224 1.00 26.24 C ATOM 15062 O LEU D 449 18.307 113.239 74.246 1.00 26.12 0 ATOM 15063 N PRO D 450 19.420 114.864 75.343 1.00 26.53 N ATOM 15064 CA PRO D 450 19.144 115.863 74.308 1.00 26.76 C

ATOM	15066	CB PRO D 450	19.740 117.152 74.882 1.00 26.75	С
ATOM	15069	CG PRO D 450	20.740 116.696 75.915 1.00 26.72	C
ATOM	15072	CD PRO D 450	20.256 115.399 76.436 1.00 26.46	C
ATOM	15075	C PRO D 450	19.835 115.441 73.018 1.00 26.95	C
ATOM	15076	O PRO D 450	20.900 114.858 73.115 1.00 26.62	Ο
ATOM	15077	N PRO D 451	19.251 115.714 71.852 1.00 27.50	N
ATOM	15078	CA PRO D 451	19.740 115.142 70.583 1.00 27.73	C
ATOM	15080	CB PRO D 451	18.949 115.895 69.504 1.00 27.70	C
ATOM	15083	CG PRO D 451	17.763 116.483 70.188 1.00 27.55	C
ATOM	15086	CD PRO D 451	18.078 116.587 71.655 1.00 27.45	C
		C PRO D 451	21.234 115.299 70.326 1.00 27.94	С
		O PRO D 451	21.815 114.398 69.720 1.00 28.24	O
ATOM	15091	N LEU D 452	21.842 116.403 70.760 1.00 28.06	N
		CA LEU D 452	23.266 116.642 70.473 1.00 28.36	C
		CB LEU D 452	23.682 118.095 70.828 1.00 28.65	С
		CG LEU D 452	22.854 119.281 70.231 1.00 29.52	C
		CD1 LEU D 452	21.801 119.881 71.212 1.00 29.54	С
		CD2 LEU D 452	23.744 120.418 69.669 1.00 29.58	С
		C LEU D 452	24.161 115.589 71.170 1.00 28.18	C
		O LEU D 452	25.193 115.191 70.625 1.00 28.53	O
		N LEU D 453	23.741 115.135 72.356 1.00 27.86	N
		CA LEU D 453	24.408 114.059 73.097 1.00 27.60	C
		CB LEU D 453	24.267 114.294 74.599 1.00 27.44	С
		CG LEU D 453	24.831 115.612 75.121 1.00 26.81	C
		CD1 LEU D 453	24.530 115.780 76.600 1.00 26.12	C
		CD2 LEU D 453	26.325 115.688 74.855 1.00 26.44	C
		C LEU D 453	23.876 112.659 72.768 1.00 27.82	C
		O LEU D 453	24.595 111.668 72.906 1.00 27.68	O
		N SER D 454	22.619 112.581 72.340 1.00 28.20	N
		CA SER D 454	22.003 111.311 71.948 1.00 28.50	С
		CB SER D 454	20.494 111.494 71.754 1.00 28.31	С
		OG SER D 454	19.990 110.600 70.781 1.00 28.47	0
		C SER D 454	22.648 110.721 70.681 1.00 28.88	C
		O SER D 454	22.639 109.519 70.480 1.00 28.85	O
		N GLU D 455	23.225 111.572 69.845 1.00 29.68	N
		CA GLU D 455	23.884 111.124 68.620 1.00 30.43	C
		CB GLU D 455	24.142 112.310 67.664 1.00 30.88	C
		CG GLU D 455	23.906 111.988 66.179 1.00 33.31	C
		CD GLU D 455	25.186 111.630 65.404 1.00 36.35	C
		OE1 GLU D 455	25.126 111.618 64.139 1.00 38.01	Ō
		OE2 GLU D 455	26.246 111.364 66.042 1.00 37.44	0
		C GLU D 455	25.188 110.396 68.931 1.00 30.06	C
		O GLU D 455	25.619 109.522 68.178 1.00 30.05	Ō
		N ILE D 456	25.791 110.741 70.058 1.00 29.91	N
		CA ILE D 456	27.125 110.254 70.396 1.00 30.08	C
		CB ILE D 456	27.916 111.336 71.167 1.00 30.17	Č
		CG1 ILE D 456	27.740 112.718 70.543 1.00 30.89	C
		CD1 ILE D 456	28.139 113.837 71.473 1.00 31.69	Č
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		CG2 ILE D 456		С
		C ILE D 456	27.066 109.011 71.270 1.00 29.78	C
ATOM	15173	O ILE D 456	27.967 108.157 71.226 1.00 29.77	O
ATOM	15174	N TRP D 457	26.013 108.920 72.075 1.00 29.47	N
ATOM	15176	CA TRP D 457	26.004 107.986 73.185 1.00 29.20	C
ATOM	15178	CB TRP D 457	25.949 108.761 74.496 1.00 29.03	С
ATOM	15181	CG TRP D 457	27.212 109.531 74.772 1.00 27.61	С
ATOM	15182	CD1 TRP D 457	28.480 109.207 74.367 1.00 26.17	С
ATOM	15184	NE1 TRP D 457	29.370 110.149 74.819 1.00 26.12	N
ATOM	15186	CE2 TRP D 457	28.690 111.112 75.522 1.00 25.26	C
ATOM	15187	CD2 TRP D 457	27.331 110.761 75.508 1.00 25.56	Č
		CE3 TRP D 457	26.423 111.596 76.165 1.00 24.92	Č
		CZ3 TRP D 457	26.886 112.724 76.788 1.00 24.01	Č
		CH2 TRP D 457	28.239 113.047 76.777 1.00 23.98	Č
		CZ2 TRP D 457	29.155 112.260 76.149 1.00 24.30	Č
		C TRP D 457	24.927 106.918 73.145 1.00 29.64	c
		O TRP D 457	25.127 105.871 73.761 1.00 30.11	Ö
		N ASP D 458	23.813 107.149 72.446 1.00 29.64	N
		CA ASP D 458		C
		CB ASP D 458		C
		CG ASP D 458	20.787 107.227 73.163 1.00 31.26	C
		OD1 ASP D 458	20.662 106.506 74.181 1.00 33.17	0
		OD2 ASP D 458	20.323 108.401 73.214 1.00 30.31	0
		C ASP D 458	23.405 105.243 70.956 1.00 29.75	_
		O ASP D 458	22.662 104.510 70.272 1.00 29.41	C
				0
		O13 444 D 500	29.783 116.760 81.248 1.00 43.28	0
		S12 444 D 500	30.864 116.387 82.132 1.00 42.59	S
		O14 444 D 500	32.224 116.769 81.817 1.00 43.05	0
		C01 444 D 500	30.406 117.217 83.634 1.00 44.92	C
		C02 444 D 500	31.432 117.604 84.565 1.00 46.73	C
		C03 444 D 500	31.074 118.247 85.767 1.00 47.36	C
		C04 444 D 500	29.711 118.493 86.031 1.00 47.70	C
		C05 444 D 500	28.700 118.103 85.104 1.00 47.53	С
		C06 444 D 500	29.037 117.452 83.895 1.00 45.98	С
		N15 444 D 500	30.896 114.676 82.479 1.00 34.04	N
		C16 444 D 500	31.497 114.289 83.828 1.00 31.09	С
		C19 444 D 500	32.388 113.140 83.555 1.00 29.66	С
		F22 444 D 500	31.626 112.067 83.351 1.00 30.77	F
ATOM	15230	F21 444 D 500	33.170 112.908 84.610 1.00 29.72	F
ATOM	15231	F20 444 D 500	33.122 113.297 82.452 1.00 28.12	F
ATOM	15232	C23 444 D 500	29.617 114.039 82.203 1.00 28.86	С
		C24 444 D 500	29.431 113.536 80.912 1.00 27.15	С
ATOM	15235	C25 444 D 500	28.198 112.945 80.565 1.00 25.98	С
ATOM	15237	C28 444 D 500	28.554 113.983 83.165 1.00 26.98	С
ATOM	15239	C27 444 D 500	27.328 113.383 82.828 1.00 25.42	С
ATOM	15241	C26 444 D 500	27.118 112.846 81.517 1.00 24.42	С
		C33 444 D 500	25.792 112.183 81.029 1.00 22.86	C
		C34 444 D 500	25.234 111.097 81.997 1.00 20.31	Č
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ATOM 1	15244	F36 444 D 500	24.196 110.407 81.435 1.00 15.54	F
ATOM 1	15245	F37 444 D 500	26.246 110.287 82.370 1.00 20.02	F
ATOM 1	15246	F35 444 D 500	24.792 111.597 83.166 1.00 20.09	F
ATOM 1	15247	O42 444 D 500	25.988 111.622 79.680 1.00 24.12	O
		C38 444 D 500	24.688 113.270 80.950 1.00 22.86	C
ATOM I	5250	F39 444 D 500		F
ATOM 1	5251	F40 444 D 500		F
ATOM 1	5252	F41 444 D 500		F
ATOM 1	5253	OH2 HOH X 1	46.532 92.966 60.943 1.00 34.51	O
ATOM 1	5256	OH2 HOH X 2	43.940 86.741 60.458 1.00 21.54	O
ATOM 1	5259	OH2 HOH X 3	-8.517 37.033 50.353 1.00 32.34	O
ATOM 1	5262	OH2 HOH X 4	32.880 22.773 46.224 1.00 35.84	O
ATOM 1	5265	OH2 HOH X 5	14.230 40.833 44.521 1.00 26.16	O
ATOM 1	5268	OH2 HOH X 6	-4.506 33.429 56.969 1.00 22.66	O
ATOM 1	5271	OH2 HOH X 7	1.182 33.211 51.836 1.00 25.14	O
ATOM 1	5274	OH2 HOH X 8	42.367 92.308 87.001 1.00 31.51	Ο
ATOM 1	5277	OH2 HOH X 9	10.330 38.054 50.008 1.00 29.19	Ο
ATOM 1	5280	OH2 HOH X 10	11.484 48.043 48.250 1.00 27.34	Ο
ATOM 1	5283	OH2 HOH X 11	61.225 114.890 67.101 1.00 38.72	О
ATOM 1	5286	OH2 HOH X 12	2 41.090 104.749 75.930 1.00 39.93	О
ATOM 1	5289	OH2 HOH X 13	3 43.103 95.687 80.489 1.00 29.34	О
ATOM 1	5292	OH2 HOH X 14	39.300 107.966 69.692 1.00 30.35	О
ATOM 1	5295	OH2 HOH X 15	7.458 49.068 50.128 1.00 28.92	Ο
ATOM 1	5298	OH2 HOH X 16	5 10.240 45.008 40.909 1.00 32.15	О
ATOM 1	5301	OH2 HOH X 17	2.836 16.569 62.303 1.00 34.89	О
ATOM 1	5304	OH2 HOH X 18	3 20.897 45.121 29.759 1.00 36.12	O
		OH2 HOH X 20		O
		OH2 HOH X 21		О
		OH2 HOH X 22		О
		OH2 HOH X 23		О
		OH2 HOH X 24		О
			8.960 44.376 48.177 1.00 35.40	0
		OH2 HOH X 26		0
		OH2 HOH X 27		0
		OH2 HOH X 28		0
		OH2 HOH X 29		0
		OH2 HOH X 30		0
		OH2 HOH X 31		0
		OH2 HOH X 32		0
		OH2 HOH X 33		0
		OH2 HOH X 34		0
		OH2 HOH X 35		0
		OH2 HOH X 36		0
		OH2 HOH X 37 OH2 HOH X 38		0
		OH2 HOH X 38		0
		OH2 HOH X 39		0
		OH2 HOH X 40		0
A I UNI I	טוככ	OLIZ DOR A 41	3.143 27.301 03.404 1.00 34.78	О

ATOM	15373	ОН2 НОН Х	42	16.656 43.571 31.693 1.00 39.41	0
		ОН2 НОН X		42.928 104.982 74.371 1.00 41.79	0
ATOM	15379	ОН2 НОН X	44	57.847 85.188 90.141 1.00 33.55	0
ATOM	15382	ОН2 НОН X	45	29.538 70.693 76.936 1.00 30.56	Ö
		он2 нон х		12.599 46.276 27.929 1.00 49.86	Ŏ
		ОН2 НОН X		28.126 22.913 46.477 1.00 47.72	Ŏ
		ОН2 НОН X		11.129 33.667 46.692 1.00 49.46	Ŏ
		ОН2 НОН X		-11.613 23.589 62.844 1.00 54.23	ŏ
		OH2 HOH X		-1.060 49.229 56.547 1.00 46.16	o
	-	OH2 HOH X		37.636 92.539 81.720 1.00 36.58	Ö
		OH2 HOH X		27.519 41.154 40.197 1.00 35.37	ő
		OH2 HOH X		40.050 99.057 64.126 1.00 52.91	ő
		OH2 HOH X		-19.683 26.686 47.468 1.00 44.72	Ö
		OH2 HOH X		50.246 84.320 94.984 1.00 34.24	Ö
		OH2 HOH X		16.902 38.476 34.555 1.00 32.06	0
		OH2 HOH X		38.060 67.355 68.317 1.00 41.43	0
		OH2 HOH X		60.904 94.982 89.432 1.00 34.65	
		OH2 HOH X		-17.325 22.794 57.113 1.00 46.37	0
					0
		OH2 HOH X		3.362 13.072 65.124 1.00 38.40	0
		OH2 HOH X OH2 HOH X		34.741 105.795 74.730 1.00 37.68	0
		-		36.894 71.754 79.474 1.00 32.98	0
		OH2 HOH X		13.379 32.879 42.381 1.00 41.41	0
		OH2 HOH X		46.404 124.169 78.443 1.00 35.68	0
		OH2 HOH X		45.804 94.373 63.138 1.00 38.40	0
		OH2 HOH X		51.421 95.969 67.069 1.00 43.00	0
		он2 нон х		11.339 36.149 48.061 1.00 34.37	0
		он2 нон х		34.894 90.045 94.991 1.00 51.93	0
		OH2 HOH X		12.975 47.342 35.353 1.00 39.82	0
		он2 нон х		63.059 87.658 92.928 1.00 42.47	0
		OH2 HOH X		33.804 93.321 79.878 1.00 47.03	О
		OH2 HOH X		2.417 31.051 61.473 1.00 41.02	O
				17.739 57.775 68.846 1.00 51.94	О
ATOM	15469	OH2 HOH X		25.040 39.514 30.274 1.00 35.46	О
		OH2 HOH X		9.628 47.145 38.834 1.00 35.97	O
		OH2 HOH X		-1.455 38.558 54.975 1.00 43.93	Ο
ATOM	15478	OH2 HOH X	77	23.890 32.054 65.767 1.00 40.56	О
ATOM	15481	OH2 HOH X	78	35.220 87.143 59.408 1.00 47.79	Ο
ATOM	15484	OH2 HOH X	79	-3.737 37.957 51.063 1.00 37.26	Ο
ATOM	15487	OH2 HOH X	80	26.390 20.517 51.266 1.00 41.78	Ο
ATOM	15490	OH2 HOH X	81	44.780 96.146 82.783 1.00 40.78	O
ATOM	15493	OH2 HOH X	82	61.022 96.896 91.425 1.00 47.39	О
ATOM	15496	OH2 HOH X	83	10.746 33.408 64.943 1.00 41.11	Ο
ATOM	15499	OH2 HOH X	84	42.068 92.559 99.125 1.00 40.71	Ο
ATOM	15502	OH2 HOH X	85	37.825 95.713 83.950 1.00 42.10	О
ATOM	15505	OH2 HOH X	86	18.527 38.924 32.746 1.00 31.46	О
ATOM	15508	ОН2 НОН Х	87	34.168 36.470 54.739 1.00 39.12	O
ATOM	15511	ОН2 НОН Х	88	19.596 48.522 72.373 1.00 46.37	O
		ОН2 НОН Х			Ō

ATOM 15517	OUR HOUR ON	57 660 112 247 60 754 1 00 41 04	^
	OH2 HOH X 90	57.669 113.347 68.754 1.00 41.84	0
	OH2 HOH X 91	-6.478 40.654 47.625 1.00 35.45	0
	OH2 HOH X 92	21.629 59.988 53.544 1.00 43.70	0
	OH2 HOH X 93	46.330 74.545 84.817 1.00 51.22	0
	OH2 HOH X 94	-0.340 39.090 62.724 1.00 62.65	0
	OH2 HOH X 95	62.907 120.631 75.543 1.00 59.06	0
	OH2 HOH X 96	8.178 27.884 44.411 1.00 51.10	O
	OH2 HOH X 97	27.884 88.496 62.492 1.00 40.76	O
	OH2 HOH X 98	-8.889 15.690 48.102 1.00 48.95	О
	OH2 HOH X 99	9.002 52.589 72.903 1.00 50.58	О
	OH2 HOH X 100	31.344 29.561 45.713 1.00 43.51	О
ATOM 15550	OH2 HOH X 101	18.153 37.397 64.337 1.00 54.94	O
ATOM 15553	OH2 HOH X 102	1.030 50.658 57.245 1.00 37.76	О
ATOM 15556	OH2 HOH X 103	29.712 106.432 76.942 1.00 40.89	О
ATOM 15559	OH2 HOH X 104	22.984 38.071 63.390 1.00 42.03	O
ATOM 15562	OH2 HOH X 105	51.193 79.769 95.149 1.00 45.76	O
ATOM 15565	OH2 HOH X 106	33.792 91.621 90.143 1.00 51.13	O
ATOM 15568	OH2 HOH X 107	36.239 92.488 88.867 1.00 39.52	0
ATOM 15571	OH2 HOH X 108	-3.601 13.130 44.654 1.00 54.47	O
ATOM 15574	OH2 HOH X 109	49.245 108.437 58.969 1.00 35.43	O
	OH2 HOH X 110	-18.430 23.420 50.306 1.00 39.52	O
ATOM 15580	OH2 HOH X 111	-18.855 46.772 46.188 1.00 58.56	O
	OH2 HOH X 112	45.326 103.771 72.690 1.00 36.87	0
		60.490 82.135 95.444 1.00 35.66	O
	OH2 HOH X 114	53.497 88.269 70.140 1.00 50.29	Ö
	OH2 HOH X 115	32.011 109.362 74.027 1.00 41.73	o
	OH2 HOH X 116	0.426 9.190 66.809 1.00 41.95	o
	OH2 HOH X 117		0
	OH2 HOH X 118	-3.746 7.119 61.813 1.00 47.41	o o
	OH2 HOH X 119		O
	OH2 HOH X 120		Ö
	OH2 HOH X 121		ŏ
	OH2 HOH X 122	12.750 37.842 70.610 1.00 45.55	Ö
	OH2 HOH X 122	8.747 37.163 32.384 1.00 40.95	o
= :	OH2 HOH X 124	61.006 109.762 72.425 1.00 57.76	o
	OH2 HOH X 124	46.773 121.479 78.212 1.00 40.44	0
	OH2 HOH X 126	46.357 103.993 67.888 1.00 42.09	0
	OH2 HOH X 127	25.492 45.676 35.124 1.00 55.50	o
	OH2 HOH X 128	-0.796 46.044 59.885 1.00 44.16	ŏ
	OH2 HOH X 129	3.729 30.062 68.882 1.00 43.81	0
•	OH2 HOH X 130	48.573 84.962 56.210 1.00 43.53	O
	OH2 HOH X 130	-6.600 39.522 57.877 1.00 52.66	Ö
	OH2 HOH X 131	-23.390 27.562 46.202 1.00 46.29	
			0
	OH2 HOH X 133	36.470 27.644 53.311 1.00 50.64	0
	OH2 HOH X 134	16.019 63.275 53.172 1.00 58.47	0
	OH2 HOH X 135	-24.310 23.846 44.067 1.00 45.15	0
	OH2 HOH X 136	10.555 49.737 71.777 1.00 52.75	0
ATUM 13638	OH2 HOH X 137	26.101 85.589 68.136 1.00 54.10	О

ATOM 13	5661	он2 нон	X 138	23.425	48.004	36.029	1.00 60.82	0
ATOM 1:	5664	ОН2 НОН	X 139	13.175	50.753	30.871	1.00 50.31	0
ATOM 13	5667	он2 нон	X 140	4.424 4	2.442 4	7.614	1.00 50.61	0
ATOM 1:	5670	ОН2 НОН	X 141	21.786	39.941	30.408	1.00 41.84	0
ATOM 13	5673	он2 нон	X 142	46.374	98.519	84.033	1.00 49.67	0
ATOM 1:	5676	он2 нон	X 143	30.667 2	21.882	56.816	1.00 51.78	0
ATOM 1:	5679	ОН2 НОН	X 144	6.883 1	7.302 6	7.157	1.00 44.68	О
ATOM 1:	5682	он2 нон	X 145	-8.666 4	0.701 5	2.911	1.00 55.03	O
ATOM 13	5685	он2 нон	X 146	46.777	99.081	39.567	1.00 38.00	0
ATOM 15	5688	ОН2 НОН	X 147	44.860 7	79.405	78.864	1.00 44.03	0
ATOM 15	5691	ОН2 НОН	X 148	-1.046 3	4.042 7	1.130	1.00 50.39	Ο
ATOM 15	5694	ОН2 НОН	X 149	50.211	98.627	71.049	1.00 52.24	0
ATOM 15	5697	он2 нон	X 150	59.387 8	81.812	97.546	1.00 37.06	0
ATOM 15	5700	ОН2 НОН	X 151	35.147 8	89.645 8	31.199	1.00 34.78	0
ATOM 15	5703	ОН2 НОН	X 152	8.708 4	6.589 4	2.720	1.00 39.52	O
ATOM 15	5706	ОН2 НОН	X 153	11.645 4	48.307	37.723	1.00 27.22	0
ATOM 15	5709	ОН2 НОН	X 154	8.993 4	7.914 4	7.811	1.00 33.15	O
ATOM 15	5712	ОН2 НОН	X 155	10.193 4	45.169	71.150	1.00 54.72	0
ATOM 15	5715	ОН2 НОН	X 156	65.460 8	87.643	94.825	1.00 44.03	0
ATOM 15	5718	ОН2 НОН	X 157	-7.012 3	9.371 5	0.073	1.00 32.06	О
ATOM 15	5721	ОН2 НОН	X 158	31.654 1	06.977	74.549	1.00 33.49	O
ATOM 15	5724	ОН2 НОН	X 159	21.167 4	41.889	71.647	1.00 46.47	0
ATOM 15	5727	ОН2 НОН	X 160	-25.714	18.816	18 .564	1.00 49.63	О
ATOM 15	5730	ОН2 НОН	X 161	33.611 2	28.996 4	14.403	1.00 53.51	0
ATOM 15	5733	ОН2 НОН	X 162	59.252 8	35.715	92.605	1.00 38.66	Ο
ATOM 15	5736	ОН2 НОН	X 163	56.509 7	79.788	79.546	1.00 51.27	Ο
ATOM 15	5739	ОН2 НОН	X 164	61.945 8	34.384	5.225	1.00 37.20	Ο
ATOM 15	5742	ОН2 НОН	X 165	21.292 3	39.470 <i>6</i>	55.165	1.00 43.24	Ο
		он2 нон					1.00 40.20	Ο
ATOM 15	5748	ОН2 НОН	X 167	38.973 2	28.814 5	3.562	1.00 54.48	Ο
		ОН2 НОН					1.00 53.05	O
		ОН2 НОН					1.00 61.79	O
		ОН2 НОН		34.981 6	59.780 7	79.701	1.00 40.54	O
		OH2 HOH		51.901 1	04.303	67.464	1.00 47.59	О
		ОН2 НОН					1.00 51.39	O
		ОН2 НОН					1.00 48.91	0
ATOM 15							1.00 38.37	0
ATOM 15							1.00 42.62	0
ATOM 15							1.00 50.06	O
ATOM 15							1.00 46.69	O
ATOM 15	-	-					1.00 50.34	0
ATOM 15							1.00 41.40	Ο
ATOM 15							1.00 46.32	Ο
ATOM 15							.00 46.68	О
ATOM 15	5793	OH2 HOH	X 182	51.690 12	26.628	74.732	1.00 52.23	О

Claims

- 1. A crystal comprising at least 150 amino acid residues of the LXRβ ligand binding domain.
- 2. A crystal according to claim 1 comprising the amino acid sequence from Leu-220 to Glu-461 of a human LXRβ shown in Figure 5 or an amino acid sequence having at least 95% identity with the sequence and which encodes for a LXRβ ligand binding domain.
- 3. A crystal according to any one of claims 1 to 2 comprising the entire LXRβ ligand binding domain.
- 4. A crystal according to any preceding claim produced using a sequence including helix 12 of LXRβ.
- 5. A crystal according to any one of claims 1 to 4 usable in X-ray crystallography.
- 6. A crystal according to any one of claims 1 to 5 including a ligand bound to LXRβ or a portion thereof.
- 7. A crystal according to claim 6 in which the ligand is T0901317, GW3965 or any other ligand that binds with reasonable affinity (IC50<1000 nM to the internal LXRβ binding cavity).
- 8. A crystal of LXR β LBD belonging to the space group P2₁2₁2₁ and having the unit cell dimensions a = 59 + /-3 Å, b = 100 + /-5 Å, c = 176 + /-3 Å, $\alpha = \beta = \gamma = 90^{\circ}$.
- 9. A crystal of LXR β LBD belonging to the space group P6₁22 and having the unit cell dimensions a=59 +/-3 Å b= 59+/-3 Å c=294 +/-3 Å , $\alpha = \beta = 90^{\circ}$, $\gamma = 120^{\circ}$.

- 10. A crystal of LXR β LBD in complex with a coactivator peptide (TIF2 NR-box 1) belonging to the space group P2₁2₁2 and having the unit cell dimensions a= 89+/-3, b= 91+/-3, c=131+/-3 . $\alpha = \beta = \gamma = 90^{\circ}$.
- 11. A crystal according to any of claims 1 to 10 having a resolution determined by X-ray crystallography of better than 3.6 Å.
- 12. A crystal according to claim 11 having a resolution determined by X-ray crystallography of better than 2.9 Å.
- 13. A method of using the crystal according to any one of claims 1 to 12 in a drug screening assay comprising:
 - (a) selecting a potential ligand by performing rational drug design with the three-dimensional structure determined for the crystal, wherein said selecting is performed in conjunction with computer modelling;
 - (b) contacting (i.e. docking) the potential ligand with the ligand binding domain of LXRβ; and
 - (c) detecting the binding of the potential ligand for the ligand binding domain.
- 14. A method according to claim 13, wherein a potential drug is selected on the basis of it having a greater affinity for the ligand domain of LXR β than that of a standard ligand for the ligand binding domain of LXR β .
- 15. The method of claim 14 wherein the standard ligand in step (c) is T0901317, GW3965, or 24(S),25-epoxycholesterol.
- 16. The method of any one of claims 13 to 15 further comprising:
 - (d) growing a supplemental crystal containing a protein ligand complex formed between the N-terminal truncated LXRβ and the potential drug, wherein the crystal effectively diffracts X-rays for the determination of the atomic coordinates of the protein-ligand complex to a resolution of greater than 5.0 Å;

- (e) determining the three-dimensional structure of the supplemental crystal with molecular replacement analysis;
- (f) selecting a candidate drug by performing a rational drug design with the three-dimensional structure determined for the supplemental crystal, wherein said selecting is performed in conjunction with computer modelling;
- (g) contacting a cell that expresses LXRβ; and
- (h) detecting a measure of protein synthesis in the cell; wherein a candidate drug is identified as such a drug when it inhibits or enhances the expression of protein synthesis in the cell.
- 17. The method of claim 16 further comprising an initial step that precedes steps (a) wherein initial step consists of determining the three-dimensional structure of a crystal comprising a protein-ligand complex formed between an N-terminal truncated LXRβ and T0901317, GW3965, or 24(S),25-epoxycholesterol, wherein the crystal effectively diffracts X-rays for the determination of the atomic coordinates of the protein-ligand complex to a resolution of greater than 5.0 Å.
- 18. A method of using the crystal according to any one of claims 1 to 12 in a drug screening assay comprising:
 - (a) selecting a potential ligand by performing rational drug design with the three-dimensional structure determined for the crystal, wherein said selecting is performed in conjunction with computer modelling;
 - (b) adding the potential ligand to a cDNA or protein expression assay regulated by LXRβ; and
 - (c) detecting a measure of a cDNA or protein expression; wherein a potential ligand that regulates the expression of protein expression is selected as a potential drug.
- 19. The method of claim 18 wherein said protein expression is an *in vitro* protein expression assay.

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- 20. A machine-readable data storage medium, comprising a data storage material encoded with machine readable data which, when using a machine programmed with instructions for using said data, is capable of displaying a graphical three-dimensional representation of a crystal structure according to any one of claims 1 to 12 or a homologue of said crystal structure.
- 21. A method for designing a potential LXR β ligand for the treatment of diseases modulated by the natural LXR β ligand, the method comprising the steps of:
 - (a) employing computational means to perform a fitting operation between the chemical entity and a binding site of LXRβ receptors identified from a machine-readable storage medium according to claim 20; and
 - (b) analyzing the results of the fitting operation to predict the association between the potential LXR β ligand and the binding site.
- 22. Method according to claim 21, additionally providing the steps of:
 - (c) synthesizing the potential LXR β ligand based on the crystal structure of the said receptor; and
 - (d) assaying the LXR β ligand binding response in a LXR β animal model cell line by measuring one or more *in vivo* effects including but not limited to changes in lipoprotein profile, changes in serum or tissue triglyceride levels, changes in serum or tissue cholesterol levels, changes in serum glucose levels, changes in atherosclerotic lesion size indicating that the LXR β ligand may be used for treatment of diseases modulated by LXR β .
- 23. A method according to claim 21, additionally providing the steps of:
 - (e) synthesising the potential LXR β ligand based on the crystal structure of said receptor; and
 - (f) assaying the LXR β ligand binding response in a LXR β reporter cell line by measuring one or more *in vitro* effects, including but not limited to changes in the activity of a LXR response element driven reporter gene such as alkaline phosphatase, green fluorescent protein, or luciferase, changes indicating that the LXR β ligand may be used for treatment of diseases modulated by LXR β .

- 24. A method according to any one of claims 21 to 23, additionally comprising the steps of modifying the potential LXRβ ligand so that it:
 - (a) sterically displaces helix-12; or
 - (b) disrupts the dimerisation surface.
- 25. A method according to any one of claims 21 to 24, wherein said a potential LXR β ligand is a LXR β antagonist.
- 26. A method according to any one of claims 21 to 24, wherein said potential LXRβ ligand is an agonist.
- 27. A method according to any one of claims 21 to 24, wherein said potential LXR β ligand is a selective modulator.
- 28. A method of designing a ligand which will bind to LXRβ comprising comparing the shape of a compound with the shape of the ligand-binding cavity of LXRβ as obtained from a crystal according to any one of claims 1 to 12, and determining which amino acid or amino acids of the ligand binding domain interact with said compound.
- 29. A crystallized molecule or molecular complex comprising a binding pocket defined by the structure coordinates of human LXRβ ligand binding domain amino acid residues Ser242, Phe268, Phe271, Thr272, Leu274, Ala275, Ser278, Ile309, Met312, Leu313, Glu315, Thr316, Arg319, Ile327, Phe329, Leu330, Tyr335, Phe340, Leu345, Phe349, Ile350, Ile353, Phe354, His435, Gln438, Val439, Leu442, Leu449, Leu453, Trp457, according to the co-ordinate tables or a homologue of said molecule or molecular complex wherein said homologue has a root mean square deviation form the backbone atoms of said amino acids of not more than 1.5Å.
- 30. A crystallisable composition comprising at least 150 amino acid residues of the LXRβ ligand-binding domain.

- 31. An isolated protein consisting essentially of the amino acid sequence shown from amino acid 220 to amino acid 461 in Figure 5a or the sequence shown in Figure 5b.
- 32. An isolated protein according to claim 31, additionally comprising a tag, such as a his-tag.
- 33. A vector, such as a plasmid, containing a nucleic acid molecule encoding a protein consisting of the amino acid sequence shown from 220 to 461 in Figure 5 or the sequence shown in Figure 5b.
- 34. A host cell containing a vector according to claim 33.
- 35. An isolated protein having an amino acid sequence identical to the amino acid sequence used in a crystal according to any one of claims 1 to 2.
- 36. A computer for producing a three-dimensional representation of:
 - (a) a molecule or molecular complex, wherein said molecule or molecular complex comprises a binding pocket defined by the structure coordinates of LXRβ amino acid residues Ser242, Phe268, Phe271, Thr272, Leu274, Ala275, Ser278, Ile309, Met312, Leu313, Glu315, Thr316, Arg319, Ile327, Phe329, Leu330, Tyr335, Phe340, Leu345, Phe349, Ile350, Ile353, Phe354, His435, Gln438, Val439, Leu442, Leu449, Leu453, Trp457 according to the co-ordinate tables; or
 - (b) a homolog of said molecule or molecular complex, wherein said homolog comprises a binding pocket that has a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å, wherein said computer comprises:
 - (i) a computer-readable data storage medium comprising a data storage material encoded with computer-readable data, wherein said data comprises the structure of LXRβ amino acid residues Ser242, Phe268, Phe271, Thr272, Leu274, Ala275, Ser278, Ile309, Met312, Leu313, Glu315, Thr316, Arg319, Ile327, Phe329, Leu330, Tyr335, Phe340, Leu345, Phe349, Ile350, Ile353, Phe354,

- His435, Gln438, Val439, Leu442, Leu449, Leu453, Trp457 according to the co-ordinate tables;
- (ii) a working memory of storing instructions for processing said computer-readable data;
- (iii) a central-processing unit coupled to said working memory and to said computer-readable data storage medium for processing and computer-machine readable data into said three-dimensional representation; and
- (iv) a display coupled to said central-processing unit for displaying said three-dimensional representation.
- 37. The computer according to claim 36 wherein said computer produces a three-dimensional representation of:
 - (a) a molecule or molecular complex defined by structure coordinates of all of the LXRβ ligand binding domain amino acid residues set forth in the co-ordinate tables; or
 - (b) a homolog of said molecule or molecular complex, wherein said homolog comprises a binding pocket that has a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å; and wherein said computer readable data contains the coordinates of all of the LXRβ ligand binding domain amino acid residues as set forth in the co-ordinate tables.
- 38. A method for determining the three-dimensional structure of a complex between LXRβ and a ligand therefore, which comprises:
 - (a) obtaining x-ray diffraction data for crystals of the complex as defined in any one of claims 1 to 12; and
 - (b) utilizing a set of atomic coordinates as defined in claim 29 or a portion thereof; and coordinates having a root mean square deviation therefrom with respect to conserved protein backbone atoms of not more than 1.5Å to define the three-dimensional structure of the complex.
- 39. A method for determining a modelling structure of a protein containing LXRβ or a complex of said protein and a ligand, which method comprises:

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- (a) providing a three-dimensional structure defined by a set of coordinates as defined in claim 29, or a portion thereof; and coordinates having a root mean square deviation therefrom with respect to conserved protein backbone atoms of not more than 1.5Å;
- (b) generating a three-dimensional model structure of the protein containing LXR β using a homology modelling method and the structure of step (a) as a template; and
- (c) subjecting the resulting model to molecular mechanics energy minimization.

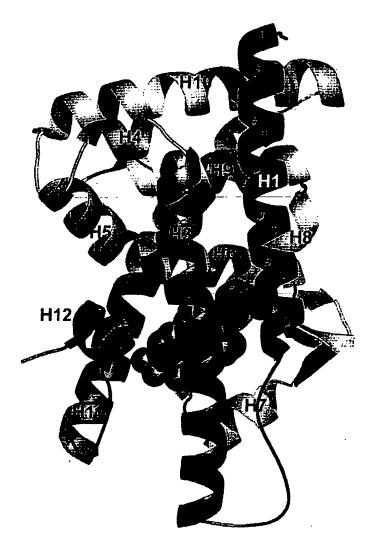


Figure 1

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10/540612

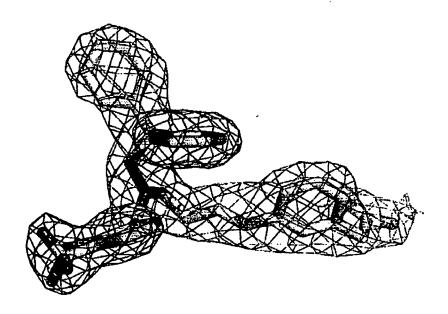


Figure 2

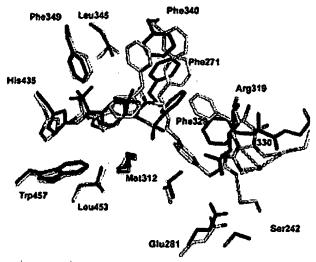


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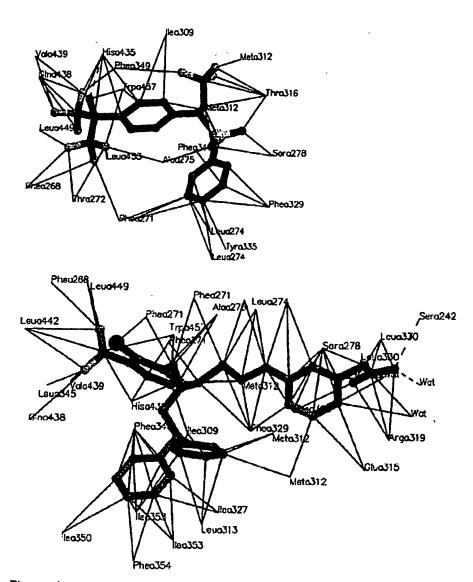


Figure 4.

Figure 5

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- (b) 209 gshmgegegv qltaaqelmi qqlvaaqlqcnk
 - 241 rsfsdqpkvt pwplgadpqs rdarqqrfah ftelaiisvq eivdfakqvp gflqlgredq
 - 301 iallkastie imlletarry nhetecitfl kdftyskddf hraglqvefi npifefsram
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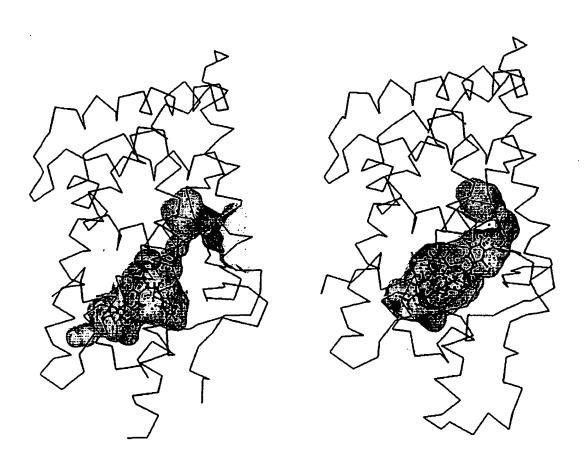


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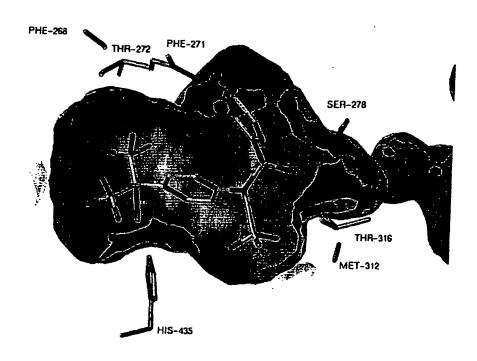


Figure 7

SEQUENCE LISTING JC20 Rec'd PCT/PTO 2 3 JUN 2005

<110> Karo Bio AB

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<130> P708226PCT

<150> GB0230177.8

<151> 2002-12-24

<160> 2

<170> PatentIn version 3.2

<210> 1

<211> 461

<212> PRT

<213> Homo sapiens

<400> 1

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Gly Pro Pro Gln Pro Gly Ala Pro Ser Ser Ser Pro Thr Val Lys Glu 20 25 30

Glu Gly Pro Glu Pro Trp Pro Gly Gly Pro Asp Pro Asp Val Pro Gly 35 40 45

Thr Asp Glu Ala Ser Ser Ala Cys Ser Thr Asp Trp Val Ile Pro Asp 50 55 60

Pro Glu Glu Glu Pro Glu Arg Lys Arg Lys Gly Pro Ala Pro Lys 65 70 75 80

Met Leu Gly His Glu Leu Cys Arg Val Cys Gly Asp Lys Ala Ser Gly 85 90 95

Phe His Tyr Asn Val Leu Ser Cys Glu Gly Cys Lys Gly Phe Phe Arg 100 105 110 Arg Ser Val Val Arg Gly Gly Ala Arg Arg Tyr Ala Cys Arg Gly Gly 115 120 125

Gly Thr Cys Gln Met Asp Ala Phe Met Arg Arg Lys Cys Gln Gln Cys 130 135 140

Arg Leu Arg Lys Cys Lys Glu Ala Gly Met Arg Glu Gln Cys Val Leu 145 150 155 160

Ser Glu Glu Gln Ile Arg Lys Lys Ile Arg Lys Gln Gln Gln 165 170 175

Glu Ser Gln Ser Gln Ser Pro Val Gly Pro Gln Gly Ser Ser 180 185 190

Ser Ser Ala Ser Gly Pro Gly Ala Ser Pro Gly Gly Ser Glu Ala Gly
195 200 205

Ser Gln Gly Ser Gly Glu Gly Glu Gly Val Gln Leu Thr Ala Ala Gln 210 215 220

Glu Leu Met Ile Gln Gln Leu Val Ala Ala Gln Leu Gln Cys Asn Lys 225 230 235 240

Arg Ser Phe Ser Asp Gln Pro Lys Val Thr Pro Trp Pro Leu Gly Ala 245 250 255

Asp Pro Gln Ser Arg Asp Ala Arg Gln Gln Arg Phe Ala His Phe Thr 260 265 270

Glu Leu Ala Ile Ile Ser Val Gln Glu Ile Val Asp Phe Ala Lys Gln 275 280 285

Val Pro Gly Phe Leu Gln Leu Gly Arg Glu Asp Gln Ile Ala Leu Leu 290 295 300

Lys Ala Ser Thr Ile Glu Ile Met Leu Leu Glu Thr Ala Arg Arg Tyr 305 310 315 320

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Asn His Glu Thr Glu Cys Ile Thr Phe Leu Lys Asp Phe Thr Tyr Ser 325 330 335

Lys Asp Asp Phe His Arg Ala Gly Leu Gln Val Glu Phe Ile Asn Pro 340 345 350

Ile Phe Glu Phe Ser Arg Ala Met Arg Arg Leu Gly Leu Asp Asp Ala 355 360 365

Glu Tyr Ala Leu Leu Ile Ala Ile Asn Ile Phe Ser Ala Asp Arg Pro 370 375 380

Asn Val Gln Glu Pro Gly Arg Val Glu Ala Leu Gln Gln Pro Tyr Val 385 390 395 400

Glu Ala Leu Leu Ser Tyr Thr Arg Ile Lys Arg Pro Gln Asp Gln Leu 405 410 415

Arg Phe Pro Arg Met Leu Met Lys Leu Val Ser Leu Arg Thr Leu Ser 420 425 430

Ser Val His Ser Glu Gln Val Phe Ala Leu Arg Leu Gln Asp Lys Lys 435 440 445

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<210> 2

<211> 208

<212> PRT

<213> Artificial

<220>

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amino acid residues (GSHM) fused to the N-terminal end of residues 213-416 originating from human LXR Beta

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1 5 10 15

Glu Leu Met Ile Gln Gln Leu Val Ala Ala Gln Leu Gln Cys Asn Lys 20 25 30

Arg Ser Phe Ser Asp Gln Pro Lys Val Thr Pro Trp Pro Leu Gly Ala 35 40 45

Asp Pro Gln Ser Arg Asp Ala Arg Gln Gln Arg Phe Ala His Phe Thr 50 55 60

Glu Leu Ala Ile Ile Ser Val Gln Glu Ile Val Asp Phe Ala Lys Gln 65 70 75 80

Val Pro Gly Phe Leu Gln Leu Gly Arg Glu Asp Gln Ile Ala Leu Leu 85 90 95

Lys Ala Ser Thr Ile Glu Ile Met Leu Leu Glu Thr Ala Arg Arg Tyr 100 105 110

Asn His Glu Thr Glu Cys Ile Thr Phe Leu Lys Asp Phe Thr Tyr Ser 115 120 125

Lys Asp Asp Phe His Arg Ala Gly Leu Gln Val Glu Phe Ile Asn Pro 130 135 140

Ile Phe Glu Phe Ser Arg Ala Met Arg Arg Leu Gly Leu Asp Asp Ala 145 150 155 160

Glu Tyr Ala Leu Leu Ile Ala Ile Asn Ile Phe Ser Ala Asp Arg Pro 165 170 175

Asn Val Glu Pro Gly Arg Val Glu Ala Leu Gln Gln Pro Tyr Val 180 185 190

Glu Ala Leu Leu Ser Tyr Thr Arq Ile Lys Arg Pro Gln Asp Gln Leu

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195 200 205

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